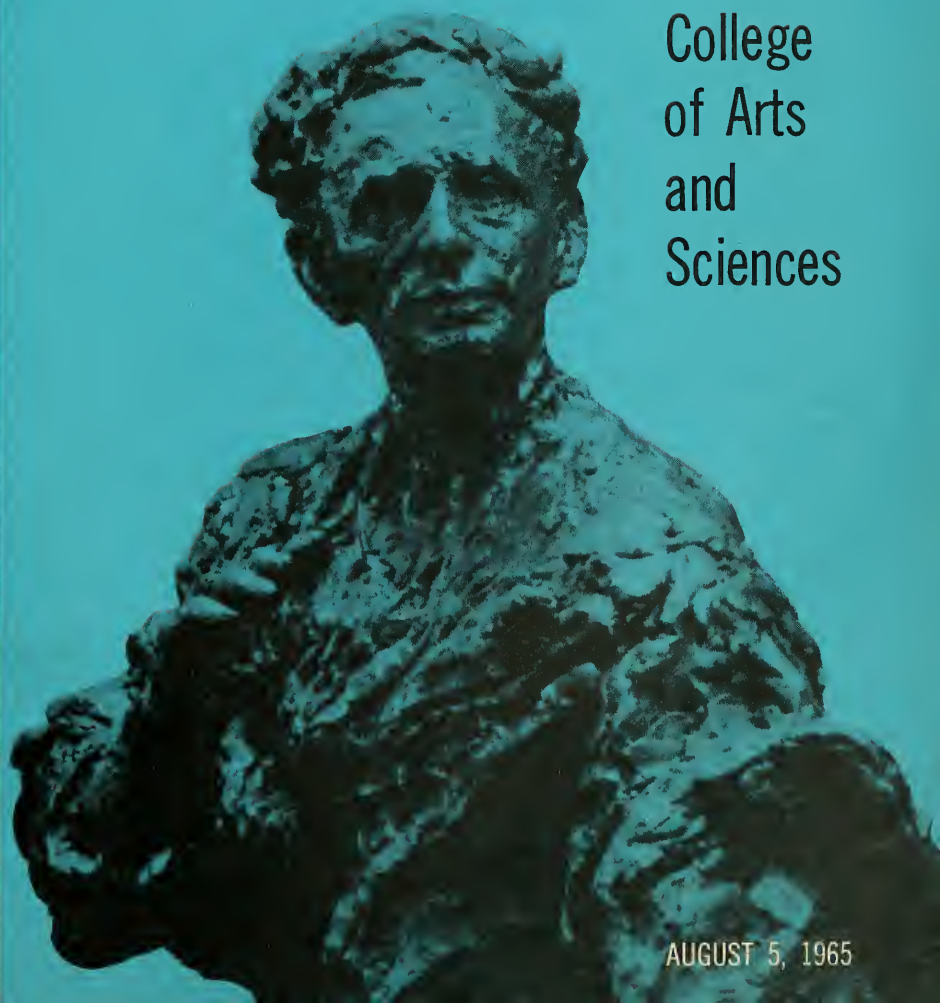


BRANDEIS UNIVERSITY BULLETIN 65/66



College
of Arts
and
Sciences

AUGUST 5, 1965

COVER: *The statue of Louis Dembitz Brandeis on the Brandeis University campus executed by Robert Berks under a commission from Lawrence A. Wien of New York. Dedicated by Chief Justice Earl Warren on the 100th anniversary of the birth of Brandeis, November, 1956.*

This publication is corrected as of June 1, 1965.

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Brandeis University

College
of
Arts
and
Sciences
1965/1966

W A L T H A M , M A S S A C H U S E T T S



“It must always be rich in goals and ideals, seemingly attainable but beyond immediate reach. . . .

“It must become truly a seat of learning where research is pursued, books written, and the creative instinct is aroused, encouraged, and developed in its faculty and students.

“It must ever be mindful that education is a precious treasure transmitted—a sacred trust to be held, used, and enjoyed, and if possible strengthened, then passed on to others upon the same trust.”

—from the writings of
LOUIS DEMBITZ BRANDEIS (1856-1941)
on the goals of a university.



“Brandeis will be an institution of quality, where the integrity of learning, of research, of writing, of teaching, will not be compromised. An institution bearing the name of Justice Brandeis must be dedicated to conscientiousness in research and to honesty in the exploration of truth to its innermost parts.

“Brandeis University will be a school of the spirit—a school in which the temper and climate of the mind will take precedence over the acquisition of skills, and the development of techniques.

“Brandeis will be a dwelling place of permanent values—those few unchanging values of beauty, of righteousness, of freedom, which man has ever sought to attain.

“Brandeis will offer its opportunities of learning to all. Neither student body nor faculty will ever be chosen on the basis of population proportions, whether ethnic or religious or economic.”

—PRESIDENT ABRAM L. SACHAR, at the ceremonies inaugurating
Brandeis University, October 8, 1948



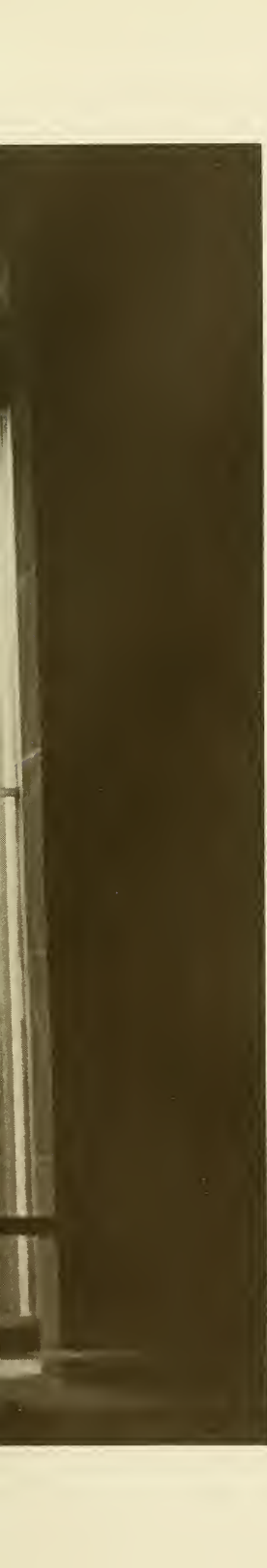


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Academic Calendar 1965-1966

Fall Term

Tuesday	September 14	New students arrive on campus. President's banquet.
Wednesday	September 15	New students register. Placement examinations and conferences.
Thursday	September 16	New students consult faculty advisers. Medical examinations.
Friday	September 17	Returning students arrive on campus. Opening lectures for new students. Returning students register and consult faculty advisers. 1-5 P.M. sectioning at Shapiro Athletic Center.
Monday	September 20	{ Opening days of instruction in all courses. Unless noted otherwise, section meetings will not take place until the following week.
Tuesday	September 21	
Monday	September 27	{ No University exercises.
Tuesday	September 28	
Monday	October 4	Freshmen study cards due no later than 5:00 P.M.
Tuesday	October 5	Upperclass study cards due no later than 5:00 P.M. Last day on which a student may enroll in a course without fee.
Wednesday	October 6	No University exercises.
Monday	October 11	No University exercises.
Monday	October 18	No University exercises.
Friday	October 22	Last day for course changes with fee. No student may enter a course in the Fall term 1965-66 after this date.
Friday	November 5	Grades for work incomplete in June 1965 due in the Office of the Registrar.
Thursday	November 11	No University exercises.
Friday	November 19	Midterm grades due.
Thursday	November 25	{ No University exercises.
Friday	November 26	
Friday	December 17	Winter recess begins after last class.
Monday	January 3	Classes resume.
Monday	January 17	No University exercises.
Tuesday	January 18	{ Mid-Year Examinations.
Friday	January 28	



Spring Term

Wednesday	February 2	} Opening days of instruction in all courses in the Spring term. Freshmen study cards due no later than 5:00 P.M. Upperclassmen study cards due no later than 5:00 P.M. Last day on which a student may enroll in a course without fee. No University exercises. Last day for course changes with fee. No student may enter a course in the Spring term 1965-66 after this date. Grades for work incomplete at end of the Fall term due in the Office of the Registrar. Cumulative Spring Midterm grades due. Spring recess begins after the last class. Classes resume. Freshmen plans of study and all preregistration cards due.
Thursday	February 3	
Tuesday	February 15	
Wednesday	February 16	} Final examinations. No University exercises. No University exercises. Baccalaureate. Commencement.
Tuesday	February 22	
Wednesday	March 2	
Wednesday	March 16	} Final examinations. No University exercises. No University exercises. Baccalaureate. Commencement.
Wednesday	March 30	
Friday	April 1	
Wednesday	April 13	} Final examinations. No University exercises. No University exercises. Baccalaureate. Commencement.
Friday	April 29	
Friday	May 20	
Friday	June 3	} Final examinations. No University exercises. No University exercises. Baccalaureate. Commencement.
Wednesday	May 25	
Thursday	May 26	
Monday	May 30	} Final examinations. No University exercises. No University exercises. Baccalaureate. Commencement.
Saturday	June 11	
Sunday	June 12	



Brandeis University

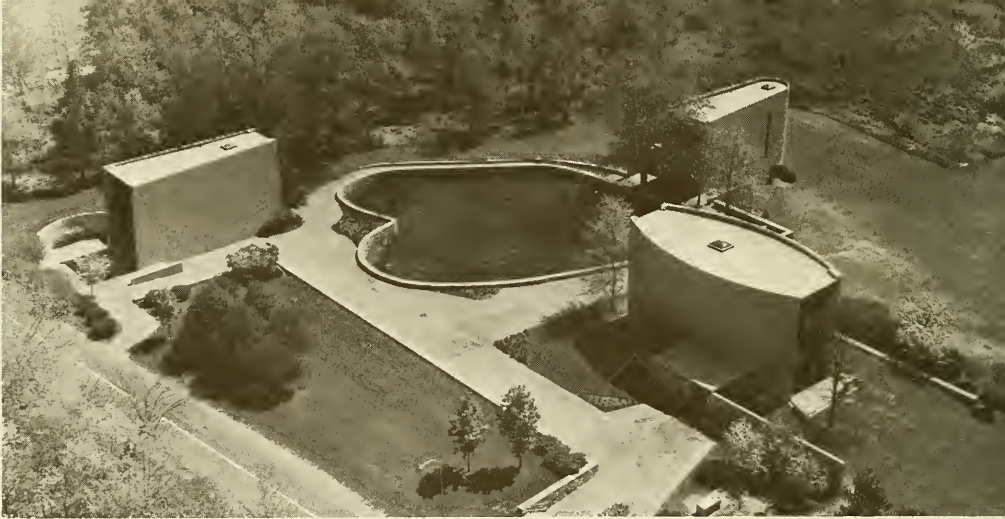


Brandeis University has set itself to develop the whole man, the sensitive, cultured, open-minded citizen who grounds his thinking in facts, who is intellectually and spiritually aware, who believes that life is significant, and who is concerned about society and the role he will play in it.

The University will not give priority to the molding of vocational skills, nor to developing specialized interests at the expense of a solid general background. This does not mean that what is termed practical or useful is to be ignored; Brandeis merely seeks to avoid specialization unrelated to our basic heritage—its humanities, its social sciences, its sciences and its creative arts. For otherwise, fragmentized men, with the compartmentalized point of view that has been the bane of contemporary life, are created.

A realistic educational system must offer adequate opportunity for personal fulfillment. Education at Brandeis encourages this drive for personal fulfillment, but only within the framework of social responsibility. Thus Brandeis seeks to educate men and women who will be practical enough to cope with the problems of a technological civilization, yet mellowed by the values of a long historical heritage; self-sufficient to the point of intellectual independence, yet fully prepared to assume the responsibilities society imposes.

Brandeis University came into being because of the desire of American Jewry to make a corporate contribution to higher education in the tradition of the great American secular universities that have stemmed from denominational generosity. By choosing its faculty on the basis of capacity and creativity, and its students according to the criteria of academic merit and promise, the University hopes to create an environment which may cause the pursuit of learning to issue in wisdom.



The Famed Three Chapels

This initial and unwavering commitment to excellence has earned early acceptance for the University within academic circles. Full accreditation came to Brandeis at the earliest possible moment. In 1961, Phi Beta Kappa granted permission for a chapter (Mu of Massachusetts) to be formed on its campus. Most recently the Ford Foundation assessed the record and potential of the University and buttressed their belief in its future with two major challenge grants to Brandeis, an accolade accorded to only five universities in the nation.

University Organization

Brandeis is one of the few small universities in the United States. The academic programs, described below, are each limited in size to encourage quality and integrity of intellectual achievement. There is constant interaction between college, graduate and professional schools, and institutes. The accomplishments of one set automatic pace for the others, and the interchange benefits all, creating an intellectual environment of decided vitality. Additionally, the organic richness of the extensive research activity fertilizes the undergraduate root of the institution no less than the graduate and professional programs.

The College of Arts and Sciences

In keeping with its general objectives, Brandeis attaches the greatest of importance to the liberal arts curriculum. It is designed to offer full academic opportunities for those students planning to pursue graduate or professional studies as well as those whose educational objective is the baccalaureate degree.

The College of Arts and Sciences offers instruction in the Schools of Creative Arts, Humanities, Social Science and Science. Regularly matriculated students pursuing courses of instruction under the Faculty of Arts and Sciences may, upon satisfactory completion of the first year, continue as candidates for the Bachelor of Arts degree.

Established in 1948, full accreditation was received by Brandeis' College of Arts and Sciences from the New England Association of Colleges and Secondary Schools in 1953.

The Graduate School of Arts and Sciences

The Graduate School is designed to educate broadly as it trains professionally. It is sensitive to the fact that as specialization increases within society, the traditional boundaries between the Ph.D. and advanced professional degrees are gradually losing their distinctions. It seeks to achieve a spirit of informality, without sacrificing work disciplines.

The Graduate School of Arts and Sciences offers courses of study leading to the master's and doctor's degrees. Graduate areas include Anthropology, Astro-Physics, Biochemistry, Biology, Biophysics, Chemistry, Contemporary Jewish Studies, English and American Literature, History of American Civilization, History of Ideas, Mathematics, Mediterranean Studies, Music, Near Eastern and Judaic Studies, Philosophy, Physics, Psychology and Sociology. (Theatre Arts and Politics will be added as graduate areas in the academic year, 1966-67.)

(Full information is available in the catalog of the Graduate School of Arts and Sciences.)

The Florence Heller Graduate School for Advanced Studies in Social Welfare

The Florence Heller Graduate School for Advanced Studies in Social Welfare, made possible through the generous grant of Mrs. Florence Heller of Chicago, was established at Brandeis University in 1959. Applicants are required to have earned the degree of Master of Social Work at an accredited school and, preferably, to have had experience on a professional level. The program of study leads to the doctorate and is designed to qualify graduates for administrative and consultative roles in established areas of social work, as well as newly emergent areas such as international social work, intergroup organization, labor, industry and government. Emphasis is placed upon community organization, social work administration, and research, making full use of the social sciences.

(Full information is available in the catalog of the Heller Graduate School.)

Related Academic Programs

Wien International Scholarship and Fellowship Program

The Wien International Scholarship Program, created in 1958 by the Lawrence A. and Mae Wien Fund, is designed to further international understanding, to provide foreign students with opportunities for study in the United States, and to enrich the intellectual and cultural life of the Brandeis campus.

The Program permits the University to offer scholarships and fellowships covering tuition, room, board and, in rare instances, travel costs, to students from foreign nations. Awards, made for the academic year, may be renewed for a subsequent year. All applicants must possess a thorough knowledge of the English language.

All Wien Scholars study within the regularly organized curriculum, which is supplemented by special seminars, conferences and field trips, planned to provide a broad understanding of many facets of American society.

The Wien Program endorses the participation of accepted students in accredited summer orientation programs, especially in the Boston Area International Seminar, a cooperative effort by Boston College, Brandeis, Boston University, Harvard University, and Massachusetts Institute of Technology. Wien Scholars are also encouraged to participate in the Homestay Program of the Experiment in International Living and in similar authorized programs designed to make the foreign student at home in his new environment.

In 1963 the Wien Program was expanded to include graduate students. A limited number of Wien Fellowships are available to highly qualified advanced degree candidates. Inquiries should be addressed to the Dean of the Graduate School or to the Director of the Wien Program, stating specifically interest in a particular field of graduate study.

Jacob Hiatt Institute in Israel

The University conducts, with the co-operation and support of the United States Department of State, an annual semester Institute in Israel. Open to college and university juniors and selected seniors who have completed introductory courses in political science, sociology, or social psychology, the Institute offers instruction in modern Jewish and Israel history; Israel political and social institutions and the Hebrew language.

The Institute, which is located in Jerusalem and directed by Brandeis faculty, is unique in that it emphasizes first-hand investigation. Formal classroom work is supplemented by seminars with persons prominent in Israel's political and economic life, and fieldwork is conducted at on-the-spot locations such as factories, seaports, labor councils, agricultural settle-

ments, Arab and Christian communities, army training centers and mineralogical exploration points in the Negev Desert.

Enrollment in the Hiatt Institute is also open to a limited number of qualified students from other colleges and universities.

The Sarah and Gersh Lemberg Nursery School

The Lemberg Laboratory-Nursery School was established, as a unit of the Psychology department, in the fall of 1961 through the generosity of Samuel and Lucille Lemberg. Both indoor and outdoor facilities and equipment accommodate some 30 youngsters. Brandeis students enrolled in the education sequence, and students from Tufts University and Wheelock College, serve as practice teachers.

Rubin Anthropology Program

A grant from the Samuel Rubin Foundation led to an intensive and diversified program of training and field work in foreign lands, and also provided for an undergraduate program which included summer field work training for honors candidates and a fully subsidized scholarship program.

Rosenstiel Biochemistry Program

The graduate and research program in biochemistry is supported by a grant from the Dorothy H. and Lewis Rosenstiel Foundation made "in support of research in the natural sciences with primary emphasis in biochemistry."

The Rosenstiel Biochemistry Program, established in 1957, includes more than 70 graduate and postgraduate research fellows. Among the agencies co-operating in sponsoring research are the National Science Foun-

A classroom session in the nursery school



dation, National Institutes of Health, Office of Naval Research, American Cancer Society, Atomic Energy Commission, the Eli Lilly Company, Howard Hughes Foundation, Rockefeller Foundation, National Dental Institute, and the Damon Runyon Memorial Fund.

Professorships and Lectureships

Jacob Ziskind Professorships

To implement its philosophy of education, the University brings to the campus distinguished academic figures from sister universities both in the United States and abroad who serve as Ziskind Visiting Professors. This program, made possible by the Jacob Ziskind Endowment Fund, enables the University to supplement its regular teaching staff with the presence of academicians drawn from other major streams of educational thought. Inclusion of distinguished foreign academicians serves to challenge and stimulate faculty and students with the introduction of new concepts and new educational viewpoints, thus strengthening the entire educational process.

Harry B. Helmsley Lecture Series

Established to reduce barriers that separate different races, creeds and nationalities, this annual public lecture series has, since its inauguration, featured leading philosophers, educators, government officials and religious leaders in discussions and seminars that relate to intergroup understanding.

The Martin Weiner Distinguished Lectureships

The income from this endowment fund permits the designation of several Weiner Distinguished Lecturers each year. Lecturers receiving these appointments are selected not only from the academic world, but also include figures drawn from the fields of religion, government, international affairs, letters, science, and the business world. The Weiner Distinguished Lecturers enrich the University's curriculum by participating in regular academic seminars and symposia and, in addition, University convocations and public events.

Stephen S. Wise Memorial Lecture

This annual lecture was established by the late Nathan Straus to bring to the University each year a distinguished representative of the liberalism that was basic to the outlook of Dr. Wise.

Abba Eban Lectureship

Also through the generosity of Nathan Straus this endowment permits an annual lecture by a statesman or scholar on some phase of Middle Eastern affairs.



Art Exhibit in Slosberg Music Center

Ludwig Lewisohn Memorial Lectures

Sponsored by the students of the University in tribute to their late teacher, this annual series presents noted literary figures drawn from the fields of criticism and creative writing.

George and Charlotte Fine Endowment Fund

Created to supplement chamber music programs given under the auspices and direction of the Department of Music, the Fine Endowment Fund makes possible the engaging of visiting artists to perform with members of the Brandeis faculty.

Special Academic Programs

Poses Institute of Fine Arts

Established by Jack I. and Lillian Poses, to supplement the University's curriculum program in the Fine Arts, by:

1) Exhibiting paintings, sculpture, artifacts and other expressions of contemporary and traditional art in the University's museum and many gallery



"In honoring, we are honored."

halls; 2) Sponsoring lecture series and symposia with notable art historians, critics and practitioners of the Fine Arts, for the widest possible benefit of the community; 3) Establishing annual institutes, organized around basic issues in the arts and contemporary life; 4) Providing funds for commissions and grants-in-aid for young artists of talent who have completed the formal years of their education and are seeking to establish themselves as practicing artists.

Philip W. Lown Institute of Contemporary Jewish Studies

A grant from Philip W. Lown has established a center for training men and women who are concerned with contemporary Jewish scholarship or with a career in institutional Jewish service. The Institute cooperates with the regular departments of the University and with the Florence Heller Graduate School for Advanced Studies in Social Welfare. It is administered by a director and an interdisciplinary faculty committee. A limited number of fellowships are available to help subsidize these studies.

An additional grant has established a research center as an adjunct to the Lown Institute. It will examine the problems of contemporary Jewish life and intensify the Institute's lecture series. Initial effort for the research center is a program, beginning in September, 1965, to explore the status of Soviet Jewry.

The Morse Communication Research Center

The Communication Research Center of the University is engaged in a program of sponsored research studies, institutes and publications which explore and evaluate many aspects of communications in our society. Essential to these ongoing programs is the simultaneous development of basic resource material. This involves the study of the impact of communications upon many aspects of contemporary life—social structures, political organizations, international relations, education and the formation of individual and group attitudes.

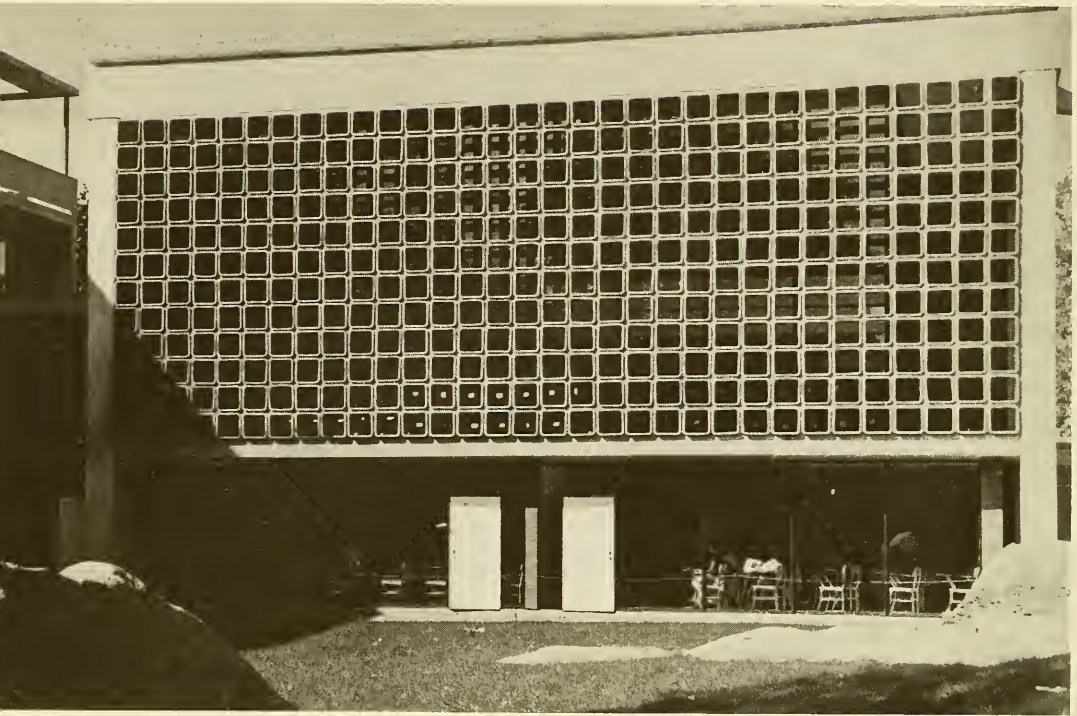
Among the programs undertaken have been annual quantitative studies of the programming content of educational television stations in the United States; a multi-national mass communication study program for representatives of newly emerging nations in cooperation with the United States Department of State; and a national conference on the role and economics of educational television in cooperation with the American Academy of Arts and Sciences, with the support of the United States Department of Health, Education and Welfare.

The Center is primarily underwritten by a major grant from Lester S. and Alfred L. Morse of Boston.

Peace Corps Training Program

Under contracts with the United States Peace Corps, Brandeis University has served for several years as a training center for Peace Corps volunteers. Training on the Brandeis campus has included preparation for work in areas of public health, community development, university education and secondary schools.





Schwartz Hall

Community Services

Lowell Institute Cooperative Broadcasting Council

Brandeis University is a member of the Lowell Institute Cooperative Broadcasting Council, which sponsors the educational radio station WGBH-FM and Boston's educational TV station WGBH-TV, Channel 2. Brandeis, along with Boston College, the Boston Symphony Orchestra, Boston University, Harvard University, Lowell Institute, MIT, the Museum of Fine Arts, the New England Conservatory of Music, Northeastern University, and Tufts University, makes its teaching facilities available for use by WGBH-FM and its television affiliate, WGBH-TV. One of the significant programs of the University's educational broadcasting was "The Prospects of Mankind," organized by the late Mrs. Eleanor Roosevelt, which appeared on both educational and commercial TV stations, in the United States and abroad. This program was sponsored by the National Educational Television Center, and was produced by WGBH-TV, in cooperation with Brandeis University.

Brandeis University Creative Arts Awards

The establishment of the Brandeis University Creative Arts Awards was announced by the University during 1956. Awards are presented annually in the areas of Theatre Arts, Music, Poetry or Fiction and Painting or Sculpture. In each of these fields of the arts, two types of awards are bestowed. Achievement medals are conferred upon successful artists for outstanding accomplishments during the year; and grants-in-aid are awarded to young talented persons, in recognition of their creative ability and encouragement for future study and training. Special juries are appointed annually in each of the fields to judge the competition.

Office of Adult Education

To provide adults with the opportunity to pursue courses of instruction in areas of particular interest to them, the Office of Adult Education sponsors daytime seminars, and evening and Sunday-morning lecture courses, all directed by members of the Brandeis faculty, and all consistent with the quality of Brandeis academic offerings. In addition, the office plans and presents a variety of special public lecture programs throughout the academic year.

Summer Institutes for Adults

The Summer Institutes for Adults seek to broaden the University's academic scope by offering a unique residence program to adults from all sections of the country. Participants may spend either one or two weeks of intensive, uninterrupted study, directed by Brandeis faculty members and supplemented by guest lecturers, on topics broadly concerned with the problems and trends of contemporary civilization.

Themis House

Through the generosity of Mr. and Mrs. Boice Gross of San Francisco, Brandeis has acquired the use of a large estate—within a few minutes drive of the campus—consisting of nine acres of land and an attractive English Tudor mansion where it is possible to house, feed and accommodate 30-40 persons. "Themis House" is the setting for significant academic institutes, conferences and training programs sponsored by the University. In exceptional instances, it is made available to cooperating educational or civic agencies.

The Computer Center

Established under an initial grant from the National Science Foundation, the University's computer center employs an IBM 1620 machine in work supporting research in the social and life sciences. Plans are presently underway for substantial expansion of equipment and facilities.

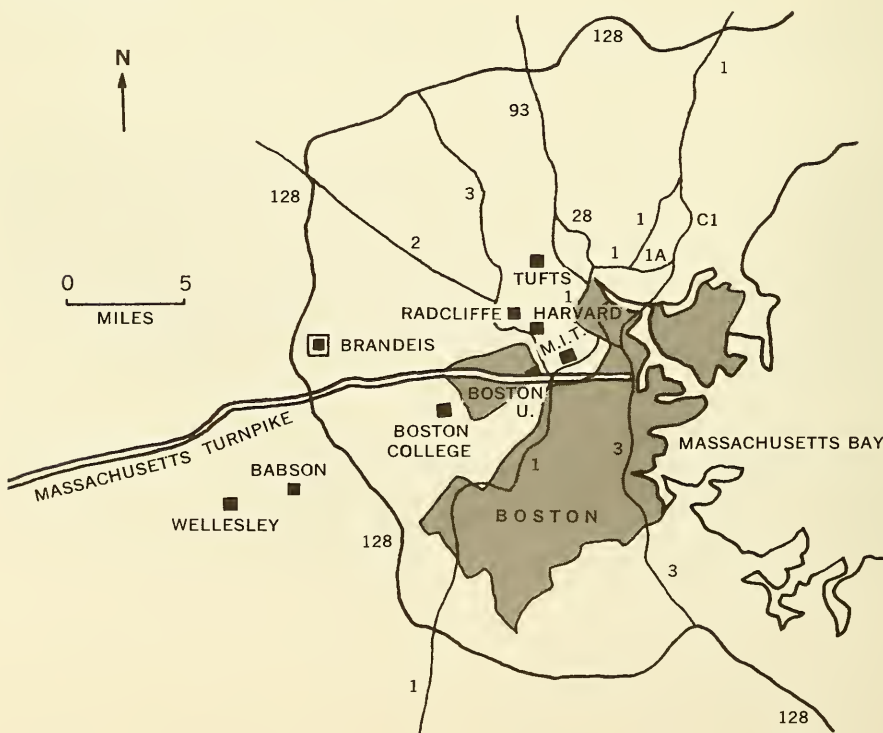
General Description

Brandeis University, on the southwest outskirts of Waltham, Massachusetts, is ten miles west of Boston, adjacent to Wellesley and near historic Lexington and Concord.

From the eastern Charles River boundary, University grounds sweep upward to New England's famed Boston Rock, where Governor Winthrop and his Massachusetts Colony explorers first surveyed the region that is today Greater Boston.

By automobile, the campus may be reached as follows: *From the south and west* take Exit 14 of the Massachusetts Turnpike and follow signs to Route 128 North, then Exit 51, left turn at end of exit ramp and follow signs to Brandeis. *From the north:* Route 128 south to Exit 51, then follow signs. *From Boston:* Massachusetts Turnpike Extension to Exit 15, follow signs towards Route 30 and Weston, right turn at Route 30, left turn at traffic light; or, follow Commonwealth Avenue (Route 30), until the intersection just west of the Route 128 overpass; follow signs to Brandeis.

By public transportation: The campus is adjacent to the Roberts Station of the Boston and Maine Railroad (West Concord Line), from which trains run on a frequent schedule to and from downtown Boston (North Station) and Cambridge. Rapid Transit facilities terminate at the Riverside Station of the Massachusetts Bay Transportation Authority (MBTA), 3 miles from campus. Public bus and taxi service operate between Riverside and Brandeis.





Center for the University's Administrative Offices

Long distance bus travellers will find that it is much easier to alight at Riverside rather than Park Square, Boston. All Trailways and Greyhound through and express buses stop there. Train travellers from the South should de-train at Boston, but train travellers from the west should get off at Newtonville, a 20-minute ride from campus on the Roberts bus. From Logan Airport, the easiest route is by taxi to North Station and from there to the Roberts stop (check train schedule first). Rapid Transit is also available from Logan to North Station.

Academic and Administrative Buildings

Abelson Physics Building

Completed in 1965, the Abelson Physics Building houses teaching and research laboratories of the Physics Department. It also includes a major physics lecture and demonstration hall.

Administration Center

Overlooking the main entrance to the campus, the Brandeis University Administration Center houses the offices of the president, deans, student administration, university administration and the National Women's Committee. Conference room facilities serve the Board of Trustees, faculty and administrative staff. The Center comprises Bernstein-Marcus Administration Center, Gryzmish Academic Center and the Julius and Matilda Irving Presidential Enclave.

Bass Physics Building

A unit of the newly completed Science Quadrangle, the Bass Physics Building includes research facilities for the Physics Department as well as departmental offices.

Bassine Biology Center

The newly opened Bassine Biology Center houses all of the research activities of the Biology Department. It includes environmental growth chambers and greenhouses in addition to laboratories, laboratory support areas, preparation rooms, and seminar facilities for the use of Biology faculty and research personnel.

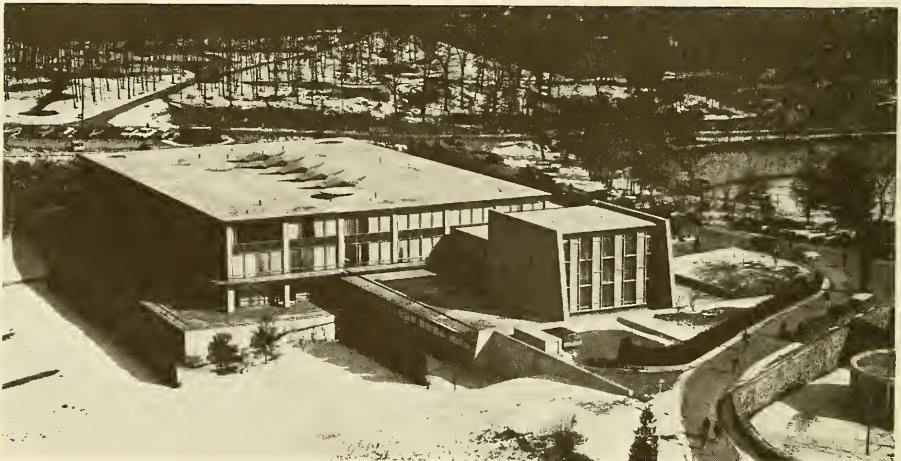
Brown Social Science Center

Adjacent to the library, the Brown Social Science Center includes three structures.

The central building houses the Sociology, Anthropology, Psychology and Economics Departments. It contains classrooms, seminar rooms, faculty offices, laboratories and a small anthropology museum. Glass walls overlook an attractively landscaped quadrangle which the Social Science Center encloses.

Schwartz Hall houses a 300-seat lecture auditorium, classrooms and a spacious lounge. Millions of viewers across the nation have watched television programs recorded in the main auditorium, specially equipped for use as a television studio. The lounge contains a permanent exhibit of Oceanic Art and Ethnographic objects donated to the University by Mrs. Helen S. Slosberg.

The Faculty Center





The Goldfarb Library

Lemberg Hall is the home of the Lemberg Laboratory-Nursery School, operated by the Department of Psychology. Classrooms with specially constructed walls of one-way glass enable students to observe youngsters in the nursery school and to record their development from the observation room. Lemberg Hall also houses the Psychological Counseling Center.

Brown Terrarium

Brown Terrarium, a completely equipped experimental greenhouse, located between the Faculty Center and Sydeman Hall, provides facilities for botanical research.

Harry Edison Chemistry Building

A new center for research in Chemistry, completed in 1965, the Harry Edison Chemistry Building includes laboratories and research offices for faculty, postdoctoral research fellows and other research personnel of the Chemistry Department.



Goldman-Schwartz Fine Arts Center

Faculty Center

On the south campus is the Faculty Center, containing club facilities, lounges, the faculty dining room, a private dining room for faculty meetings, and apartments for visiting faculty and lecturers.

Ford Hall

Near the central campus, Ford Hall contains classrooms, laboratories, faculty offices and Seifer Hall, an auditorium seating 500, which is used for lectures, large student meetings, and major conferences.

Friedland Research Center

Joined to Kalman Science Center by an overhead corridor of glass and stainless steel, Friedland Research Center provides four stories of modern laboratories which house research in biochemistry and related life sciences.

Gerstenzang Library of Science

The central structure of the newly completed Science Quadrangle is the Gerstenzang Library of Science. This building includes a science library and lecture-demonstration auditoria. The library contains stacks for 250,000 volumes, along with facilities for preparation and use of microfilms, a periodical room and journal reading area, office and other library administration facilities. The lecture-demonstration halls are constructed as amphitheatres, one seating 300 and the other 100. This unit is connected to all other buildings in the University's Science Complex.

Goldfarb Library Building

Near the center of the campus, Goldfarb Library Building is a brick, limestone and glass structure with an ultimate capacity of 750,000 volumes. On the periphery of its open stacks are student study carrels and faculty studies. Seminar rooms are provided for those courses requiring intimate and immediate access to library resources in specific research and reference areas. The library also contains audio-visual aids, specialized reading rooms, typing rooms and lounge facilities. Works of art from the University collection are on constant display in the many galleries of the building.

Golding Judaic Center

Overlooking the campus from the northeast corner of the Academic Quadrangle, Golding Judaic Center contains classrooms devoted to the study of the Near East, Judaics and related subjects. Classrooms and faculty offices ring its large, central lecture hall.

Goldman-Schwartz Art Studios

The Goldman-Schwartz Art Studios provide classrooms, faculty offices and sculpture areas for the Department of Fine Arts and studios for faculty, advanced students and artists-in-residence. Its completion marks a major step in fulfilling the master plan for a unified creative arts enclave extending across the southwest campus.

Goldsmith Mathematics Center

Completed in 1965 as a unit of the newly erected Science Quadrangle, the Goldsmith Mathematics Center provides classrooms, seminar rooms, research offices, faculty offices and a mathematics library for the use of the Mathematics Department.

A Lecture in Rose Art Museum



Hayden Science Court

The Charles and J. Willard Hayden Court, comprising several acres in the central campus area, is the site of present and projected science facilities of the University. This area has been set aside as a memorial to two generous benefactors, whose pioneer gift stimulated the extensive scientific programs of the University.

Kalman Science Center

The University's first structure devoted entirely to science, Kalman Science Center continues to be the key facility in the growth of the University's science facilities. This center contains instructional and research laboratories for the undergraduate School of Science and for the advanced work of the Graduate School of Arts and Sciences.

Kosow Biochemistry Building

A unit of the new Biochemistry Research Center located to the east of the existing Friedland Research Center and joined to the building on all floors, this building provides additional modern laboratories where research in Biochemistry and related life sciences is conducted.

Lecks Chemistry Building

Adjoining the existing Kalman Science Center, the Lecks Chemistry Building provides new modern laboratories and research spaces for the expanding chemistry research program of the University.

Shiffman Humanities Center



Olin-Sang American Civilization Center

On a hillside overlooking the library and Three Chapels Area, the Olin-Sang American Civilization Center provides unique seminar-classroom halls which include display areas for the placement of original manuscripts and source materials relating to the courses offered. Included are the Diplomatic Studies, Human Rights, Lincoln, Presidential, Washington, Judicial, Legislative, Ethnic Studies and Slater Halls. The Shapiro Forum, which is the building's lecture auditorium, is patterned after the United Nations General Assembly hall.

Rabb Graduate Center

A circular lounge, walled in glass, is a unique architectural feature of Rabb Graduate Center. Its main building contains classrooms and offices for the staff of the Graduate School of Arts and Sciences.

Rapaporte Treasure Hall

Adjacent to Goldfarb Library Building, and joined to it by a glass-enclosed lobby, Rapaporte Treasure Hall is the repository for rare books, incunabula and other library treasures. The upper level serves as the main exhibition area and the lower level stores the University's growing collection and includes a specially constructed vault with provision for the protection of these rare items against the ravages of time, temperature, humidity, fire or theft.

Rose Art Museum

Located within the Creative Arts enclave, the Rose Art Museum is the focal point for the University's rapidly burgeoning art collection. On permanent display are portions of the noted ceramic collection of Mr. and Mrs. Edward Rose. Major loan exhibitions are placed on display during the academic year as well as selections from the University's permanent collection. The wishing pool on the lower level is both a pleasant setting for quiet reverie and the objective of coin-tossing students before examinations.

Segal Physics Building

A unit of the newly completed science research center, the Segal Physics Building includes research offices for theoretical physicists, laboratories for research in physics, and newly developed research areas for investigations in high energy physics.

Shiffman Humanities Center

Atop a hillside where its glass walls reveal spectacular views of the campus and the country north of Boston, Shiffman Humanities Center employs a new academic concept in educational architecture. Original manuscripts, portraits, and source materials related to courses being offered are displayed in the seminar rooms. The latest in electronic language teaching facilities are employed in the building's language laboratory. Included are the Language and Phonetics, English and American Literature, Classics, Philosophy, Renaissance, Germanic and Asian Studies Halls.

Slosberg Music Center

Recently completed construction doubles the office, classroom and practice room space in Slosberg Music Center at the entrance to campus. It has its own library and a recital hall which seats 250 with carefully designed acoustical treatment. Slosberg Recital Hall is the location for the University's rich program of chamber music concerts and solo performances.

Spingold Theatre Arts Center

The Spingold Theatre Arts Center is a unique and imaginative concept translated into exciting design. With a theatre auditorium as its hub, the circular Center includes areas for every facet of the teaching and performing arts; workshops, design rooms, costume preparation and storage areas, rehearsal and dressing rooms, a little theatre and a dance studio. Spacious areas are equipped as classrooms and offices, and the great lobby has been envisioned for displays of painting, sculpture and other treasures. The Center's location on the southwest campus places it at the hub of Brandeis' creative arts teaching facilities.

Sydeman Hall

This annex to Ford Hall houses laboratories, classrooms and faculty offices.

Ullman Amphitheatre

Utilizing a natural bowl below the grape arbor and science buildings, the Amphitheatre has a complete stage with full lighting equipment and orchestra pit, classrooms and faculty offices. It is the colorful setting for University convocations and commencements.

Wolfson-Rosensweig Biochemistry Building

A unit of the new Biochemistry Research Center located to the east of the existing Friedland Research Center and joined to that building on all floors, this building provides additional modern laboratories where research in Biochemistry and related life sciences is conducted.

*Sherman
Student Center*



Woodruff Hall

Situated in the center of the campus, this white brick building temporarily houses the Florence Heller Graduate School for Advanced Studies in Social Welfare.

Athletic Facilities

Memphis Tract

A twenty-six acre area on the east edge of the campus, Memphis Tract contains the Shapiro Athletic Center, Marcus Field, Gordon Field and Rieger Tennis Courts.

Gordon Field

One of the nation's most modern tracks rings Gordon Field where the University's track and field squad plays host to teams from throughout the east. The central area provides playing fields for the University's intramural football teams and specialized accommodations for intercollegiate field events.

Marcus Playing Field

Brandeis' international student body has won respect for its soccer prowess on Marcus Playing Field, which also contains the varsity and practice baseball diamonds and a softball diamond.

Shapiro Athletic Center

Throughout the school year the main gymnasium operates day and night with varsity and intramural competition as well as physical education activities. The gymnasium is also used for public lectures, student dances, and major conferences. In addition, classrooms, offices for the physical education faculty, team, and physiotherapy rooms and dressing rooms are included in Shapiro Athletic Center.

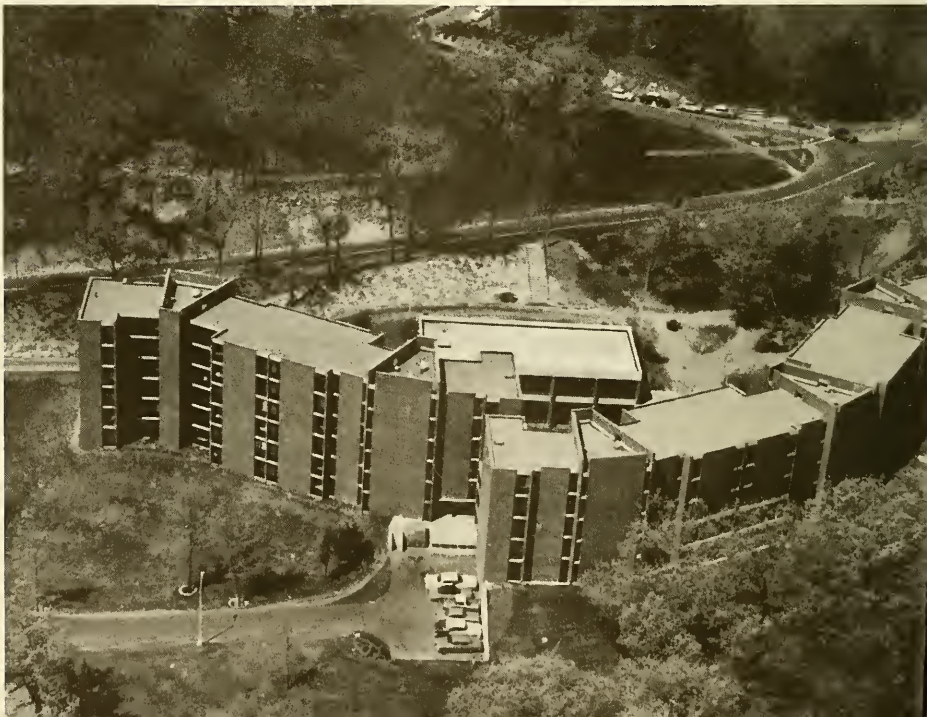
Rieger Tennis Courts

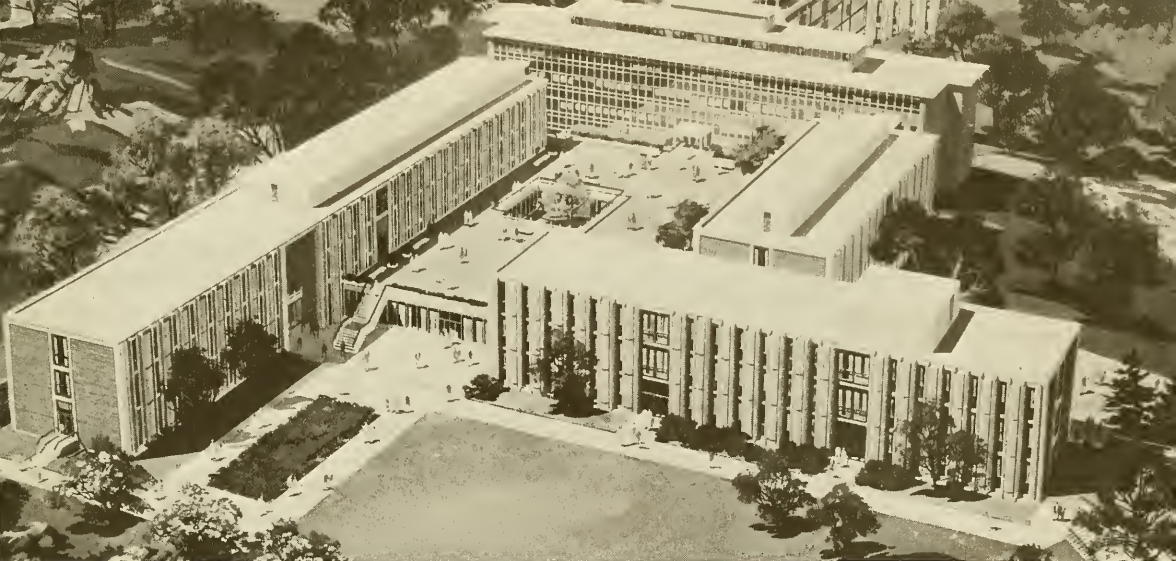
The Rieger Tennis Courts are the scene of informal as well as intramural and intercollegiate tennis competition. They are located to the rear of the Shapiro Athletic Center.

Residence Halls

Campus living accommodations consist predominantly of double rooms, some single rooms and larger quarters. Each residence hall has its own lounge or lounges. Modern laundry and other conveniences are available to all students. Each resident student should bring blankets, lamps and such rugs and decorations as are desired. Arrangements for linen and towel service may be made through the University.

East Quadrangle Residence Halls





Gerstenzang Quadrangle . . . opens September, 1965

East Quadrangle

The most recently completed residence halls on campus are those in the East Quadrangle. These include Hassenfeld House, Rubenstein Hall, Pomerantz Hall, Krivoff House and Shapiro Brothers Hall. A large central lounge serves all of these buildings, and the entire area is complemented by the Benjamin and Mae Swig Student Center which includes a dining hall and lounge facilities.

Leon Court

Leon Court, a residence area, has four dormitories and a large student center-dining hall grouped around an attractive, wooded quadrangle. Each dormitory unit contains fully equipped student rooms, a lounge and large recreation room. Dormitories in this quadrangle have been designated the Scheffres, Gordon, Cable and Reitman Halls. The student dining hall is Milton and Hattie Kutz Hall.

Massell Quadrangle

Consisting of Shapiro, DeRoy, Renfield and Usen Residence Halls, and the Sherman Student Center, this is a major housing and recreational area. Each unit has functionally equipped rooms with maximum living and closet space. Ground floor lounges overlook the central quadrangle and the walks encircling Anne J. Kane Reflecting Pool.

Ridgewood Quadrangle

Emerman, Fruchtmann, Danciger, Allen and Rosen Residence Halls comprise the University's living areas for students on the south campus. Each hall has two lounges opening on the quadrangle.

The Castle

An imposing structure designed after medieval architecture and completed a decade before Brandeis was founded, the Castle has been remodelled into single, double, and larger rooms for women. Its ground floor houses the University Snack Bar and the student-operated coffee shop, *Cholmondeley's*.

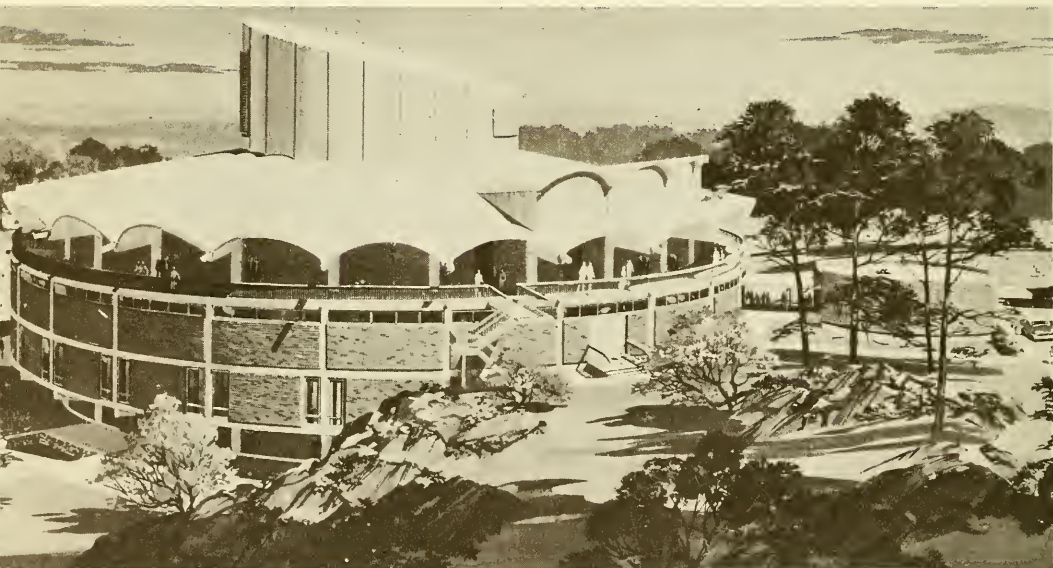
Schwartz Residence Hall

This companion structure to the Castle houses women. Its lounge, a retreat for reading, relaxation and entertainment, is furnished in contemporary style.

Sherman Student Center

The glass walls of Sherman Student Center rise from the ground level to roof, overlooking Massell Quadrangle and the Kane Reflecting Pool. Its ground floor dining hall serves several hundred students daily and is frequently utilized as a banquet hall for major University functions. Along the upper level are located a large lounge, game room and two smaller dining rooms. Bulletin boards of these rooms serve as the major communications center for student activities and the walls frequently are hung with special art exhibits. Dances, parties and meetings often occupy the entire building on busy evenings.

Spingold Theatre . . . opens September, 1965



Themis House

Special seminars, conferences and symposia are housed at Themis House, located in Weston, Mass., a few minutes from the campus. Thirty to forty participants may be accommodated for food and lodging at this University conference site, made available by Mr. and Mrs. Boice Gross.

Feldberg Lounge

Spacious and comfortable, this glass and brick walled lounge is used for informal discussions, lectures, songfests and conferences and is a favorite meeting place between classes. Works of art by student and professional artists are on constant exhibit.

Kutz Hall

A towering ceiling, attractive furnishings, a site overlooking Greater Boston, make Kutz Hall a versatile and popular student dining hall. Banquets seating 500 are held on its main floor. An outdoor terrace and commodious balcony provide unusual settings for receptions and student social activities. Folding walls under the balcony permit creation of private rooms for dinner meetings of student or faculty groups. The towering north wall of Kutz Hall mirrors the rest of Leon Court in its more than 8000 square feet of glass.

Swig Student Center

The attractively furnished Swig Student Center, in the East Quadrangle, provides dining facilities for 330 students as well as lounge and terrace for student receptions and social activities. It also includes a private dining room for dinner meetings of student groups. The Swig Student Center is connected to the dormitories of the East Quadrangle by an overhead walk.

Mailman Hall

This striking glass, brick and granite structure provides spacious lounges, modern recreational rooms and facilities for the display of painting and sculpture. A recently completed addition to this building includes student publication offices, the campus radio station, offices and meeting rooms for the Student Council and other student organizations. Designs are now being completed for transforming a substantial portion of this building into studios and demonstration classrooms for the University's newly established Learning Resources Program.

Usen Commons

Greater Boston spreads out in a panoramic view from the windows of Usen Commons, a circular, conservatory style lounge on the second level of the Castle. Since the earliest days of the University, this lounge has been familiar to Brandeis students as ideal for small dances and social functions.

Dining Halls

University dining halls are located in Kutz Hall, Swig Student Center and Sherman Student Center. A separate kitchen is maintained in Sherman Student Center for those wishing special dietary meals. In addition, light refreshments are provided in the Castle Snack Bar and *Cholmondeley's*.

Stoneman Infirmary

On the forward slope of the campus, near the Castle, the Infirmary houses a first aid treatment room, lounge, out-patient clinic, four consulting suites, and rooms for twenty-four bed patients. A new wing increased patient capacity by fifty percent.

The Three Chapels

Assuming that worship is a matter of mood and spiritual climate, not limited to words or ceremonies, the University's Harlan, Berlin and Bethlehem Chapels serve the Protestant, Jewish and Catholic faiths. A centrally located pulpit serves a large outdoor area where shared functions such as Baccalaureate are celebrated. Student organizations responsible for services are the B'nai B'rith Hillel Foundation, Newman Club and Student Christian Association. Each has its own chaplain.

Campus Landscape Architecture

Under a special grant from David and Irene Schwartz, funds have been provided for a systematic landscaping of the campus to achieve a harmony between the terrain's natural beauty and the building architecture as conceived and executed by some of the nation's noted architectural figures.

Facilities Under Construction

Heller School Facilities

A new structure, the Florence Heller Building, currently under construction, will house the administrative, faculty and teaching activities of the Florence Heller Graduate School for Advanced Studies in Social Welfare.

A major research center, the Ben Brown Building, also under construction, will provide research offices and work rooms for the multifaceted research programs being conducted by the Heller School.

Projected Facilities

Linsey Sports Center

Planned for construction during 1965-66, The Joseph Linsey Sports Center will include an Olympic size swimming pool, squash courts, fencing strips

and other athletic teaching facilities. Connected to the Athletic Center, the Sports Center will provide facilities for substantial enhancement of the University's physical education and intercollegiate athletic programs.

Student Union

Now being designed is a Student Union Complex which will consolidate student social and recreational facilities in a central location in mid-campus within easy distance of major teaching facilities and residence halls. The Student Union Complex will consist of a main structure housing such facilities as an assembly and banquet hall, the University Bookstore, Mailroom, bowling alleys, lounges and food service areas. Other components will house student organizations, student social and recreational areas, alumni offices and student service offices. The main building of the Student Union has been underwritten by Mr. and Mrs. Samuel Lemberg of New York in honor of their daughter and son-in-law, Mr. and Mrs. Nathaniel H. Usdan. Other units have been provided through generous grants from Mr. and Mrs. Joseph Gluck of New York City; Mr. Ben Tobin of Hollywood, Florida; Mrs. H. W. Winer of Brookline, Massachusetts, in memory of her late husband, Mr. Hy Winer; and the Wuliger Family of Medina, Ohio, in memory of their parents, Helen K. and Frank Wuliger.





The College of Arts and Sciences



Admission of Students

Principles

Admission to college is not merely a matter of meeting specific requirements. Since the number of qualified candidates each year substantially exceeds the limit that may be registered, the function of the Committee on Admissions is largely selective. The Committee makes its selections solely on the basis of merit. Although it chooses a class varied in its interests, talents and experience, it uses no quotas of any kind—geographic, racial, religious or economic. The Committee selects those candidates whom it believes best fitted to the University's educational program and most likely to contribute to and profit from the life of the academic community.

The Committee on Admissions gives weight to the following considerations in the evaluation of candidates: the secondary school record (including academic grades, rank in class, and personal recommendations from the principal and a teacher); the scores obtained in the Aptitude and Achievement Tests of the College Entrance Examination Board; impressions gained from a personal interview; and the candidate's statement concerning his objectives in college.

Entrance Requirements

To be eligible for admission to the College, a candidate must have completed a college preparatory course in secondary school leading to graduation or its full equivalent. He should have received the unqualified recommendation of his secondary school and his rank in class should be high.

An adequate course in preparation for college should include four years of English (grammar, composition and literature), three years of a foreign language (two years each of two languages is acceptable but less desirable), two and a half years of mathematics (intermediate mathematics, emphasizing basic algebraic, geometric and trigonometric concepts and deductive reasoning; science concentrators should have, in addition, a year of advanced mathematics), one year of science (chemistry, physics or biology), and one year of history. The remaining courses up to the number required for graduation should generally be in traditional college preparatory subjects. It is recognized, however, that courses in art and music are of value to students intending to concentrate in those fields in college.

The Aptitude and Achievement Tests of the College Entrance Examination Board are regarded by the Committee on Admissions as a basic measure of an applicant's fitness for college study and as the fairest method of evaluating on a competitive basis the qualification of candidates from different schools and areas. All applicants must take the Aptitude and three Achievement Tests. The Writing Sample is not required, and may not be substituted for an Achievement test. The College Board tests must be taken in the senior year, preferably in the December and January sessions, and no later than March. Junior year achievement scores are acceptable, however, when taken in terminal subjects. The College recognizes the desirability of aptitude tests in the junior year for purposes of guidance.

Full information concerning the tests may be obtained from secondary school guidance directors or directly from the College Entrance Examination Board, Box 592, Princeton, New Jersey, or Box 27896, Los Feliz Station, Los Angeles, California. The candidate should direct the Board to report his scores to the Dean of Admissions of Brandeis University. The choice of the three Achievement Tests will to some extent be governed by the interests of the candidate and his proposed field of concentration in college. It is recommended, however, that the candidate take Achievement Tests in: a) English or social studies; b) a foreign language; c) mathematics or a science.

Admission to Advanced Standing

Brandeis University is affiliated with the Advanced Placement Program of the College Entrance Examination Board. Students who obtain a score of 3 or higher in an Advanced Placement Examination will be eligible to take an advanced course in the area of their examination and will be given semester hour credits comparable to that awarded for completion of a similar course at Brandeis. Further information about advanced placement at Brandeis may be obtained by writing to the Dean of Admissions for a supplementary brochure. After admission, petitions for the waiver of specific courses should be made to the council chairman of the appropriate school for recommendation to the Administrative Committee of the Faculty.

Transfer students may be admitted to the sophomore or junior classes of the College and receive credit for courses satisfactorily completed in other colleges of acceptable standing and in subjects similar in nature to those offered in the Brandeis curriculum. All transfer candidates should have sent to the Dean of Admissions the scores of the Scholastic Aptitude Test and Achievement Tests of the College Entrance Examination Board which they have taken. Those candidates who have not previously taken these examinations will be required to take the Scholastic Aptitude Test of the College Entrance Examination Board no later than March of the year in which they seek admission.

Brandeis University has a two-year residence requirement for its undergraduate degree. It is not possible, therefore, to accept transfer students for the senior year only.

Admission of Special Students

The Committee on Admissions may accept as special students a small number of applicants who are not candidates for a degree and who may wish to elect one or more courses for which they are qualified. Special student status is limited to those persons not of college age who wish to pursue a limited program of study. The University is unable to accept any degree candidates on a part-time basis.

Students interested in special student status should send the Office of Admissions a brief statement of purpose and a transcript of their academic work. As admission depends partly on course enrollments, decisions cannot be final until the term begins. Candidates may be asked to arrange interviews with an admissions representative early in September, after receipt of their credentials.



Admissions Procedure

The college year begins in September and new students are enrolled only at that time. The application for admission to the freshman class or to advanced standing should be filed early in the preceding academic year and *no later than February 15, 1966*. In addition, the candidate should arrange for a personal interview by March 1.

A personal interview is considered advantageous for both the candidate and the Committee. Each prospective student is urged to visit the campus at his earliest convenience. Appointments for interviews should be made in advance. The Office of Admissions, which is located in Gryzmish Academic Administration Center, is open Mondays through Fridays, including vacation periods, but excluding legal holidays. Candidates definitely unable to visit the campus should write requesting off-campus interviews.

Candidates for the freshman class will ordinarily be notified of the Committee's decision in mid-April. Brandeis has no Early Decision Program. Transfer students may expect to hear from the Committee late in May.

Upon notification of acceptance, a candidate is required to remit the reservation fee within the time specified if he chooses to accept the place

offered to him. Admission is not final until the student satisfactorily completes his year's studies and the Medical Department has approved the candidate's health report. All new students will be required to complete a Health Examination Report, Part A of which is to be completed by the applicant and Part B by his family physician.

Foreign Students

A special program of full maintenance scholarships for foreign students has been made available through the generosity of University trustee and Mrs. Lawrence A. Wien. The Wien International Scholarships are designed for one or more years of study for undergraduate students presently enrolled in universities outside the United States. All candidates for Wien International Scholarships will be requested to submit a transcript of their academic work at the secondary and university levels. Whenever possible, a personal interview with a representative of Brandeis University will be arranged for those candidates who appear to meet the standards of admission.

Applications and descriptive information concerning this program may be obtained upon request to the Director, Wien International Scholarship Program.

A Wien Student Reception



Fees and Expenses

Financial Regulations

Students will be permitted to register for classes only after all financial obligations have been met or satisfactory terms of payment have been arranged with the office of the Dean of Financial Affairs prior to the due date of the bill in question. Payment received after the due dates of September 7, 1965, and January 21, 1966, or the due dates of the alternative plans, will be subject to a penalty charge of \$10.

Reports of grades or transcripts of records will be issued to students only after all financial obligations to the University have been discharged.

Any student who has not cleared his financial obligation or made satisfactory financial arrangements with the office of the Dean of Financial Affairs may be denied the privileges of attending classes and using University facilities.

Each application for admission must be accompanied by an Application Fee of \$10.00. The Application Fee is not refundable nor can it be credited toward other fees.

A Reservation Fee of \$50 must be filed by each candidate upon notification of acceptance. This fee reserves a place in the class and is credited toward the first semester tuition bill. If the student fails to enroll, or withdraws his application, the Reservation Fee is not refunded.

The General Fee of \$95 provides medical-health care for twelve months, library privileges, and the use of athletic facilities. Upon payment of a Student Activity Fee of \$30, collected by the Student Council, students enjoy free admission to cultural, social and athletic events held on campus during the academic year. This fee provides independence in the conduct of student programs.

Tuition and Other Fees*

The tuition fee for 1965-66 is \$1650. Each extra course is \$165. Commencing with the academic year 1966-67, the tuition fee will be \$1900 and extra courses will be \$190 each. Extra courses may be taken with the approval of the Administrative Committee. Students who are awarded financial assistance by the University, and who need to take extra courses, may request the

*The tuition fees listed in this catalog represent, at the present time, only fifty percent of the actual cost of providing full educational opportunities for each student for a single academic year. The remainder must be met by the University from general funds made available by benefactions and other special gifts.

Scholarship Committee to authorize appropriate increases in the awards they receive.

A fee, which varies according to the specific course involved, is charged for laboratory supplies.

Seniors are charged a \$10 Graduation and Diploma Fee.

All fees for special and part-time students must be paid in full by the time of registration for each semester.

Transcript Fee

Students are entitled to one formal transcript of their academic work without charge. A charge of \$1 will be made for each subsequent transcript. The student will pay the transcript fee in advance at the Cashier's Office (Bernstein-Marcus Business Administration Building).

Residence Fee

The Residence Fee for room and board for the 1965-66 academic year is \$1100, consisting of room charge of \$450 and board charge of \$650. Entering freshmen must mail a deposit of \$25 to the University with the room application. This application form will be sent to the student with the notification of acceptance. This deposit is credited toward the first bill and is not refundable if the student fails to register. Returning upperclass students must make their advance deposits before the spring room drawing. Upperclass students who fail to notify the Housing Office by July 1 of their intent not to honor their room reservations will forfeit their advance room deposit which will not be applied to their accounts.

Room contracts are signed by each resident student and are binding for the full academic year.

The fee for board includes a 21-meal dining hall contract. A 15-meal per week contract, excluding Saturdays and Sundays, at \$550 a year, is available to those students whose family residences are in Greater Boston. A request for such an arrangement must be made no later than two weeks after the beginning of classes in the Fall Term and must be accompanied by a written statement from a parent and submitted to the Steward's Office.

If the student is granted a 15-meal contract for the first semester, a credit of \$50 will be applied to the student's second-semester bill. The billing for the second semester will automatically be made at the 15-meal contract rate.

Non-resident students may eat in the University dining halls or Snack Bars on a cash basis.

Special Fees

The following special fees are payable in cash:

1. Each change of course after the initial two weeks of each semester must have the approval of the Administrative Committee and will incur a charge of \$5.
2. Late Registration fee, \$10.00.
3. Makeup Examination fee, \$5.00.
4. Medical and Dental School Recommendation fee, \$1.00 for each school.
5. Late payment fee, \$10.00.

Schedule of Payment of Bills

<u>Complete payment of Semester billings will be due on or before</u>	<u>First Semester September 7, 1965</u>	<u>Second Semester January 21, 1966</u>
Tuition	One-Half	One-Half
General Fee	\$ 95.	—
Residence Fee	550.	\$550.
Special Fees (Senior Graduation Fee, Laboratory Charges, Room Damages, etc.)	As rendered	

Other Student Expenses:

A student may expect to spend between \$150-\$200 per year for books and school supplies. In preparing a budget of annual expenses, students should also take into account personal and incidental expenses as well as transportation costs.

Alternative Payment Plans:

Many local banks now offer educational finance plans. Interested individuals should contact banks in their local communities for details.

The University has its own plan which permits four quarterly payments within each semester on specific dates established by the chief accountant. A written request in advance of the start of each semester or academic year is necessary for participation in the plan. A service charge of \$5.00 per semester is made. Payment should accompany requests.

The University also offers longer term payment plans through the New England Merchants National Bank. Information may be obtained from the chief accountant.

Supplementary Bill:

A supplementary bill may be rendered in any individual case for charges not included in previous bills.

Refunds

No refund can be made of the Tuition and General Fees because of absence, illness, dismissal or exclusion during the academic year.

If a student withdraws from the University within the first two weeks of the beginning of classes in each semester, he may be granted a refund in accordance with the following provisions:

1. He may receive a pro rata refund for board in the University dining halls, calculated to the nearest full week.

2. He may petition the office of the Dean of Financial Affairs for a partial refund of tuition.

3. No refund will be made of the payment for a room in the University dormitory for the semester in which severance occurs, unless a waiting list for room assignments exists, and the room vacated is able to be rented again by the Housing Committee.

Students who withdraw after two weeks from the beginning of classes may request, through the Steward's Office, a refund of the board bill, calculated to the nearest full week. In no case will refunds be made of tuition.

All approved refunds will be made by the Chief Accountant.

Every student must satisfy his financial obligations in full to the University before he shall be considered eligible for graduation.

Financial Aid Office

Generous benefactors throughout the country have provided Brandeis University with funds for financial assistance to deserving students. Grants of aid are ordinarily made on the basis of academic achievement, character and future promise. Their amount is based on the need of the individual student and is applied to University charges. Calculation of student need is also based in part on an estimation of earnings in summer employment and part-time employment during the school year. Awards to new students will not be made until they have been accepted for admission and all such candidates are required to file a Parents' Confidential Statement with the College Scholarship Service of the College Entrance Examination Board. This is the only application required for financial aid consideration and may be obtained from the applicant's High School guidance counselor or from the College Scholarship Service, Box 176, Princeton, New Jersey. Prospective students should direct all other inquiries to the Director of Financial Aid, Gryzmish Academic Administration Center, Brandeis University, Waltham, Massachusetts 02154.

Students should also investigate the scholarships and awards available from many civic, fraternal and religious organizations in their home communities.

Scholarships

Scholarships will usually be awarded in competition on the basis of high scholastic attainment, superior character or conspicuous talent. Scholarship stipends will be adjusted on the basis of individual need as determined by the Committee on Financial Aid. Generally, a student may expect to have his scholarship renewed annually, provided his academic performance and citizenship record is of sufficient quality and that his financial need continues. Scholarships may be adjusted annually according to the Committee on Financial Aid's determination of need, academic and personal performance, and increased employment opportunities.

It is the current policy of the Committee to combine scholarships with loans in order to assist financially as many students as possible without having some students assume overwhelming debt. Financial aid in the academic year 1964-65 was provided to approximately one out of every three students. Aid to individual students in the form of combined scholarship and loan awards may range from \$200 to \$2,800 in exceptional cases.

Loans

As mentioned above, applicants for financial aid are automatically considered for assistance in the form of either scholarship, loan or some combination of the two. All student loans require the approval of the Director of Financial Aid. Loans are to be repaid in accordance with a schedule agreed upon with the chief accountant. Interest is charged at the rate of 3% per annum on balances outstanding at the date of severance or withdrawal, or July 1, one year following graduation from the University.

The National Defense Student Loan Fund established by the National Defense Education Act of 1958 provides loans up to \$1,000 per year with a maximum of \$5,000 for any one borrower. Brandeis University is a participant in this program. Additional information may be obtained from the Director of Financial Aid.

In addition, students may wish to investigate educational loan programs offered by the State in which they reside. Massachusetts, New Jersey, New York and Rhode Island are among several states which support loan plans bearing unusually liberal interest and repayment terms for students entering or attending institutions of higher education. Information may be obtained from the student's local bank, state board of education or High School guidance office.



Student Services

Office of the Dean of Students

The Dean of Students, a University Officer, has general supervision over the academic status of students, all student services, and extra-curricular activities.

The Office of the Dean of Students (Gryzmish Academic Administrative Center) supervises and coordinates the activities of the various administrative departments designed to meet student needs. The Dean and his staff provide academic, vocational, and personal counseling for all students.

The Office of the Dean of Students directly concerns itself with the administration of financial assistance to deserving and needy students, supervising extra-curricular student activities, and executing decisions of the Administrative Committee of the Faculty. Selection of academic fields of concentration and the faculty and class advising system are supervised by the Dean's office. Other services to students, including operations relating to housing, employment and placement, registration, foreign students, study abroad, athletics, medical care and religious activities are coordinated through the Office of the Dean of Students.

The Administrative Committee

The Administrative Committee of the faculty reviews academic records after midyear and final return of grades, prepares the Dean's List, grants leaves of absence and withdrawals, establishes rules and regulations covering student life, adjudicates infractions of rules and enforces the academic regulations of the Faculty. The Dean of Students is chairman of this Committee. *Students who wish to petition the Committee must do so*

through the Office of the Dean of Students. The decisions of the Administrative Committee are final. Certain areas of decision have been delegated by the Administrative Committee to the Student Board of Review, which is elected by the student body.

Office of the Registrar

The Office of the Registrar (Gryzmish Academic Administration Center) secures and maintains the official records of students. This office conducts registration and arranges the schedules of classes and examinations. Students who have class or examination conflicts should consult the Office of the Registrar. Petitions for permission to take either half of a whole course for credit may be obtained at this office early in January of each year. Petitions for permission to take courses at summer schools for credit toward the Brandeis degree may be filed at this office in the spring of each year. At the end of each year students receive a report of their grades and of their progress toward the degree. This office issues the official transcript of the University on request and it serves as the liaison office between students and Selective Service Boards and the Veterans' Administration. Foreign students who have visa problems should consult this office.

The Office of Career Planning

The Office of Career Planning assists undergraduates, seniors, graduate students and alumni with their graduate and career plans. Information on graduate and professional school fellowships and scholarships; graduate and professional school catalogues; lists of on and off campus part-time jobs; lists of summer jobs and individual listings of permanent positions; civil service opportunities and work and travel opportunities abroad are on file in the Office of Career Planning for the use of all students and alumni.

The Office of Career Planning will assist any student who seriously needs and desires part-time work. Students seeking part-time work should register with the Office of Career Planning. New students will not be assigned part-time work prior to arrival on campus. Students are cautioned against working more than eight to ten hours per week.

Freshmen should seriously question the wisdom of seeking any part-time employment until they are certain that they can fulfill their academic responsibilities. However, Brandeis University has no rule preventing freshmen from working the first semester.

The on-campus, part-time student rate of pay is \$1.20, \$1.30 or \$1.40 per hour depending on skill and on the amount of time worked for a department. Students can expect to earn from \$200 to \$400 per year. Temporary jobs are often available on a day-to-day basis.

Student Affairs

The office of Student Affairs serves as resource for coordinating a variety of personal services of undergraduate life.

Extra-curricular student activity at Brandeis University is a major part of campus living. Values and ideas of classroom experience and the traditions of a democratic society are extended and developed through an intensive program of imaginative student activities. These activities are no mere adjunct to formal study, but together with the pursuit of academic disciplines contribute significantly to the development of intelligent college citizens.

Residence

The undergraduate college is essentially a residential college. As a general practice, students whose parents do not reside in Greater Boston are expected to live in University residence halls. Graduate residents are responsible for residence hall supervision, under the direction of the Housing Office. Seniors are employed as assistant residents to aid in the administration of residence halls.

Campus living accommodations consist predominantly of double rooms, some single rooms and larger quarters. Each residence hall has its own lounge or lounges. Modern laundry and other conveniences are available to all students. Each resident student should bring blankets, lamps and such rugs and decorations as are desired. Arrangements for linen and towel service may be made through the University.

Though Brandeis is a residence campus, some upperclass students have been permitted to live off-campus on application to the Housing Office. All requests for permission to live off-campus should be secured from the Housing Office, and must be returned there prior to the spring recess for the subsequent year. Students are reminded that these applications must be accompanied by parents' permission if student is under 21 years of age and that those on warning or probation may not live off-campus.

Student Government

Brandeis students consider themselves a part of a community dedicated to the advancement of liberal values, the enrichment of life experience and the deepening of learning. Organized as the Brandeis Student Union, they consider it their prime responsibility to create a democratic student organization, to increase the flow of new ideas and to provide enjoyable and creative recreational and cultural activities for all students.

The Student Union is the assembly of the entire student body. The Student Union Council, consisting of elected officers and elected representatives from each class, meets weekly to conduct its business and supervise its programs. One of its major responsibilities is the collection and allocation of the Student Activities Fee, which is paid by all students to the Student Union.

Many problems of student discipline are placed entirely in the hands of the Student Board of Review or the Women's Subsidiary Board of Review, which act as judicial bodies.

In addition, each class elects its own officers to manage various class activities and functions.

Publications

The student publications include *The Justice*, a newspaper edited and managed entirely by students to cover matters of campus interest; *The Turret*, a student literary magazine; *SCOPE*, covering the social sciences. *The Yearbook* is published annually by the Yearbook Club in cooperation with the Student Union. *The Brandeis Handbook*, published annually by the students and the University, contains useful information on the University and its adjoining communities.

Organizations

A variety of student organizations exists for all who are interested. Organizations are open to any matriculated student on the basis of competency or interest. No exclusive or secret societies may be organized.

Academic interest clubs include the Pre-Medical and Pre-Dental Society, the Pre-Law Society, the Spanish Club, German Club, Hebrew Circle, Le Cercle Français, and organizations for those interested in Philosophy, Biology, Chemistry, Mathematics, Physics, Anthropology, Art, Psychology, Sociology and other fields.

Religious activities are centered in the Three Chapels and are conducted by the three student religious organizations, the Hillel Foundation, the Newman Club and the Student Christian Association. In addition, each of these groups has a chaplain to serve its needs and interests.

Musical, dramatic and similar activities are engaged in by a number of student groups including the Gilbert and Sullivan Society, the Brandeis University Chorus, the Brandeis Student (Drama) Productions, and the Modern Dance Club. An original student production of a musical comedy nature is presented each year by the Hi-Charlie Association, and the proceeds are used for a student scholarship.

The University, in cooperation with the Radio Club, has established a campus radio station, WBRs, operated by the Radio Club for the residents of the campus community.

The Brandeis Debate Society offers a program of training for interested students. The University supports this activity by providing professional coaching. Novice and Varsity debaters are selected to represent Brandeis in intercollegiate competition organized around the annual national debate topic.

Honor Societies

Phi Beta Kappa

Phi Beta Kappa, for more than a century and a half, has fostered liberal education and has supplied a national criterion for the recognition of students of scholarly promise and attainment.

With the installation of the Mu of Massachusetts chapter in March, 1962, the then 14-year-old Brandeis University joined the ranks of 166 of the nation's liberal arts colleges with chapters of Phi Beta Kappa, and became the youngest independent institution authorized to form a chapter of Phi Beta Kappa since the 18th century. Elections of members-in-course, Alumni members, and Honorary members, based upon scholarly attainment and distinction, takes place at the end of the academic year.

Delta Phi Alpha

In 1962, a chapter of Delta Phi Alpha, the national German honorary fraternity, was established at Brandeis. Students are elected to Delta Phi Alpha on the basis of excellence in the study of German.

Omicron Delta Epsilon

Omicron Delta Epsilon is the Brandeis Chapter of the National Honor Society in Economics. It was established in 1963. It stimulates and promotes student interest in all aspects of Economics and confers distinction for high scholastic achievement in Economics.

Sigma Xi Club

The Brandeis Sigma Xi Club was authorized in 1961 by the national Sigma Xi organization, an honorary scientific society devoted to the encouragement of understanding of the advances and aims of scientific investigation. The local group is composed of faculty and staff members of the departments of Biology, Biochemistry, Chemistry, Mathematics, Physics and Psychology. Each year the society sponsors a series of general lectures on scientific topics open to the entire Brandeis community.

The University Health Office

The Medical Director and his staff are responsible for the physical well-being of students, including the establishment and enforcement of infirmary regulations. Payment of the required medical fee entitles students to treatment available in the David Stoneman Infirmary and to participate in the Student Health Plan.

New students in the College as well as the Graduate Schools are responsible for submission of a health examination report and meeting all requirements of the Health Office. These include a certificate of inoculation against smallpox, evidence of tetanus immunization and, if possible, complete immunization against poliomyelitis. Since students are not permitted to register until these requirements have been satisfied, it is strongly recommended that reports be submitted at least two months before registration. All new students must report for physical examinations at the beginning of each academic year. This is in addition to the pre-entrance physical examination by the student's family physician or physician of his choice.

The health insurance program helps defray expenses for a period of one year, commencing September 1, 1965, for treatment beyond the scope of the Health Office. A brochure outlining the details of this program is distributed to each student at registration and copies are mailed to parents. Students and parents are urgently requested to read this brochure and keep it for reference. It should be noted here, however, that coverage is not provided for pre-existing conditions, optical and dental services or special drugs.

Within the limitations of the insurance coverage, fees of outside doctors, laboratories, and hospitals will be processed for payment only when consultations, laboratory or x-ray studies or hospitalization have been authorized by the University Health Office in advance on a form provided for this purpose. The University is not responsible for off-campus medical and hospital care sought by students or their parents on their own initiative, or for outside care or consultation which has not previously been authorized by the Health Office. The only exception to this is in case of real emergency, or illnesses or injuries occurring while away from the university, when such prior authorization is not feasible.

The Psychological Counseling Center

The Psychological Counseling Center is located in Lemberg Hall. It provides professional assistance to students who have personal or emotional problems. Those who wish such help may refer themselves directly to the Center. Their communications with the staff are held in strict confidence.



Athletic Activities

Recognizing the importance of athletics in a sound college educational program, Brandeis University offers a wide variety of organized sports. All aspects of college athletics, however, are subordinate to the essential educational purposes for which the University exists. The athletic program exists for the welfare of the student, and for the contribution it can make to his healthy educational experience. A physical examination is required before one may participate in any organized sport.

The University fields varsity teams for men in soccer, basketball, baseball, fencing, wrestling, lacrosse, tennis and golf. Women engage in varsity competition in basketball, field hockey, tennis, fencing, softball and co-ed volleyball. These varsity squads compete against teams representing colleges and universities which regard the concept of athletics in the same spirit as does Brandeis University. Playing on a home-and-away basis, Brandeis teams have scheduled competition with teams from the Midwest, the South and New England. All home athletic contests are played on campus on Marcus Field or in the Shapiro Athletic Center. Brandeis club teams in bicycling and co-ed bowling have also been established and play in intercollegiate competition.

Believing in the values of athletic participation for both conditioning and relaxation, the University maintains a full array of intramural pro-



grams. Intramural competition in various sports is organized on a Residence Hall basis. The men's intramural program includes flag-football, basketball, softball, tennis, golf, ping pong, badminton and bowling. Residence Hall and commuter teams have been organized in these sports, with the competitive aspects subordinated to the enjoyment of the game. The women's intramural program includes volleyball, basketball, softball and tennis.

Women's Physical Education activities include archery, badminton, basketball, bowling, fencing, golf, softball, ping pong, tennis and dance. The Women's Physical Education Department sponsors the Women's Athletic Council, organized by the students. This Council is responsible for the Women's sports program. Included among the Council's activities is the Modern Dance Group. Students who have special talent in modern dance are afforded the opportunity to specialize in more advanced technique and group choreography, leading toward a dance concert given in the Spring.

Bookstore

The University Bookstore, in the Old Library Building, is owned and operated by the University for the convenience of its students. It is open Monday through Friday from 9:30 a.m. to 4:30 p.m. The Bookstore is able, through its close association and coordination with all academic departments and faculty members, to offer students a comprehensive stock of textbooks and paperbacks correlated with the academic program and with the students' interests. School supplies, drugs, personal and gift items may also be purchased at the Bookstore.

Mailroom

The Campus Mailroom is located in the Old Library Building. All student mail is delivered to the Campus Mailroom and a separate mail box is maintained for each student. The Mailroom is open from 11 a.m. to 5 p.m. Monday through Friday and from 11 a.m. to 12 noon on Saturday. All postal services are provided, including the sale of stamps and money orders, registry of mail and the handling of parcel post packages.

Automobile Regulations

The University will not permit freshmen to maintain automobiles on campus. All other students who intend to drive on campus must register their vehicles with the Department of Buildings and Grounds and the Dean of Students and must observe University Traffic and Parking Regulations.

Academic Regulations

Rate of Work

Degree candidates normally carry a full program of five courses each semester. Permission to take one additional course may be granted by the Administrative Committee of the Faculty to students whose records are above average and who have need of additional credit. Consult the chapter on fees and expenses for the cost of a sixth course. Petitions for additional courses must be approved by the student's faculty adviser and the instructor in the course concerned, and filed in the Office of the Dean of Students.

Changes in Courses

A student must file his final study card two weeks after the beginning of each semester. Any student who thereafter wishes to make a change in his program must file, at the Office of the Registrar, a course change form bearing the written approval of the instructors concerned and of his faculty adviser. A fee of \$5.00 will be charged for each change of course. No student may enter a course after the fourth week of the semester.

A student who wishes to withdraw from a sixth course without academic penalty must notify the Registrar by the last day of the semester on which a class in that course is given and pay a fee of \$5.00. A student withdrawing from a sixth course after the first two weeks of instruction and prior to the midsemester return of grades will be rebated one-half of the tuition charge. A student withdrawing from a sixth course after the midsemester return of grades will not receive a rebate of tuition.

A matriculated student who wishes to work at less than the required course rate must consult the Office of the Dean of Students and obtain the approval of the Administrative Committee. A senior with accumulated extra credits may work at a four-course rate in the second semester. A junior or senior concentrating in science may work at the four-course rate, provided he carries fifteen semester-hour credits in each semester and is making normal progress toward his degree. In other cases, permission to work at a reduced rate will be granted only in unusual circumstances.

Auditing

A student who wishes to audit courses must secure the permission of the instructor.

Class Standing

The minimum number of credits required for advancement to each class is as follows: sophomore at least 24 credits, junior 54, senior 84. One hundred

twenty credits are required for graduation. Students are advanced at the end of each academic year. A student who wishes to be advanced at the end of the Fall semester should consult the registrar.

Attendance

Any student in good standing except a freshman has unlimited cuts, provided the student completes the work in his course to the satisfaction of the instructor. A faculty member may, however, require attendance at his course, and every assignment must be completed even if the student was officially excused for the period. Students on warning are permitted three cuts per course, each semester. Students on probation are permitted no cuts.

A freshman, unless on warning or probation, is permitted three cuts per course each semester. If on warning he is permitted no cuts.

Classes begin at ten minutes after the hour and end on the hour. Tardy students may be marked absent at the discretion of the instructor.

Official excused absences are granted only by the Office of Dean of Students.

A student absent from classes because of illness must consult the University Health Office before resuming attendance. Each student must abide by the rules governing excused absences for medical reasons as described in the Health Office pamphlet.

Reading Period

An instructor, with the approval of his Department Chairman or Interdepartmental Committee Chairman and the Dean of Faculty, may institute a reading period in advanced courses. A reading period is a two-week period, immediately preceding final examination, during which no classes are held. A student works on assigned course material not covered in class sessions. The material assigned during a reading period will be included in the mid-year and final examination of the course.

Grades

Grades will be reported to the Office of the Registrar four times a year. In determining these grades all components of the student's work in a course will be considered: written work, recitations, laboratory technique and reports, special reports or research, and all examinations.

The following grades will be used with plus or minus where appropriate:

A—High Distinction B—Distinction C—Satisfactory
D—Passing, but unsatisfactory E—Failure.



The letters "S" (Satisfactory) or "U" (Unsatisfactory) may be used as the midsemester reporting system for undergraduates. The regular letter grades will be used for final grade reporting and evaluation, and these grades will reflect the semester's work. Regular letter grades will be given in the spring midsemester in year courses.

The numerical equivalents of the grades as determined by the Faculty are:

A	4.0	B	3.0	C	2.0	D	1.0
A—	3.7	B—	2.7	C—	1.7	D—	.7
B+	3.3	C+	2.3	D+	1.3	E	0.

The registrar reports grades to each student through his faculty adviser (in writing) at the end of Fall semester. The registrar transmits a complete academic report including Spring semester grades directly to the student. At the end of the academic year instructors notify students of midsemester grades.

If a student is absent without excuse from a term-end examination and the Administrative Committee does not grant a makeup examination, the student will be given a grade of zero on the examination. The instructor will be instructed to supply a grade for the course. If after six weeks the instructor fails to do so, the registrar will enter a failing grade on the student's record.

A student is expected to complete his work in each course before the beginning of the examination period. If a student receives, with the consent of the faculty member involved, an official excuse from the Office of the

Dean of Students for failure to complete a major assignment by that time, the Instructor submits the mark "Inc." The work must be made up and a formal grade reported to the Registrar no later than six weeks after the beginning of the following semester. If such work is not completed at the required time and no official excuse is offered, the instructor gives a failing grade for the assignment.

Should a student not complete other required academic exercises such as laboratory assignments, minor papers, or quizzes, and if the absence or noncompliance is excused, the instructor in charge of the course may, at his discretion, require the work to be made up or not count the assignment in determining a grade. When there is no satisfactory excuse for the incomplete work, the instructor may, at his discretion, record a failing grade.

Academic Status

A satisfactory record may contain not more than one D and no E's. At the end of the Fall term, and at the end of the academic year on the basis of the entire year's record, the Administrative Committee of the Faculty announces the Dean's List of honor students according to the following categories: No student will have his name placed on the Dean's List who has a D or more than one C in his record for the period.

Dean's List I			Dean's List II		
5	A				
4	A	1 B	3 A	1 B	1 C
3½	A	1½ B	2 A	3 B	
4	A	1 C	1 A	4 B	
3	A	2 B	5 B		

In order to be eligible for the degree a student must compensate for any D beyond two with an A or a B.

The Administrative Committee will notify a student and his parents in writing whenever his grades are unsatisfactory. When there are extenuating circumstances, no further action is taken. A student whose record is not low enough to incur probation is placed on warning, a disciplinary status. He will be placed on probation at the next grading period unless his work is then satisfactory. A student is placed on probation when his record is seriously unsatisfactory. Such a student will be in danger of dismissal unless his record shows marked improvement. A student on probation at the end of an academic year may not receive financial aid from the University. A student's connections with the University are severed if his record is so unsatisfactory that the Administrative Committee considers him unable to meet the academic requirements.



Withdrawal From the University

A student wishing to take a leave of absence or to withdraw from the University must consult the Office of the Dean of Students. Clearance by all appropriate administrative offices and approval by the Administrative Committee of the Faculty are necessary to obtain honorable dismissal.

Dismissal or Severance

The University reserves the right to dismiss or exclude at any time students whose conduct or academic standing it regards as undesirable, and without assigning any further reason therefor; neither the University nor any of its Trustees or officers shall be under any liability whatsoever for this exclusion.

Requirements For The Degree

The Brandeis curriculum is based on a general education curriculum and a coherent program of study within a field of concentration. The general education curriculum requires the student to participate in courses designed to provide a substantial general foundation of knowledge about our cultural heritage. Thus, in addition to concentrating in an elected field, the student will be introduced to the major elements of social science, to the humanities broadly considered, to an area of the arts, and to the significant concepts and achievements of science.

General Education Requirements

A freshman will take from the list below one of the Humanities courses, one of the Social Science courses, one course in the physical sciences, a half course in English Composition (1a, 1aR), and the appropriate course to satisfy the foreign language and literature requirement. Exemption from one or more of these requirements can be secured by obtaining a grade of 3 or better on the appropriate Advanced Placement test.

To complete the general education requirements, during either his sophomore or junior year, each student will take one further year course (or the equivalent) in each of the three schools other than the school in which he is a concentrator. A junior who wishes to postpone a general education requirement until the senior year must obtain the permission of the Administrative Committee.

School of Humanities

To meet the requirements a freshman must complete Humanities 1, 5, 6, or Philosophy 1. The second year requirement may be met with any other one of those courses or Humanities 2, 3, 4, 7, 10, 12, or Philosophy 11a,b.

School of Social Science

To meet the requirements, a student must take *two* one-semester courses drawn from *each* of the following two groups. A student concentrating in the Social Sciences must take a course in the group not including his department. A student concentrating in Anthropology must take one additional semester course in each group.

Group I (Historical)

History 1a, 1b
History 51a, 51b
Politics 1a, 1b
Anthropology 1a

Group II (Behavioral)

Sociology 1a, 2a, 2aR
Psychology 1a, 2b
Economics 1a, 1b
Anthropology 1b



School of Science

The first-year requirement in the physical sciences may be met by the completion of one of the following: Physical Science 1, Physics 10 or 11, Chemistry 10 and 11c, Mathematics 1, 10, 11, or 12. A student planning to concentrate in a scientific field should not elect Mathematics 1 or Physical Science 1. The second-year requirement may be met by completing Biological Science 1 or Biology 10 and 11c.

School of Creative Arts

The requirement must be met by one year course or its equivalent from among the following:

Fine Arts History courses numbered under 100 (2 semesters).

Music 1.

Music courses numbered below 50, of which at least one semester course must be in music history and literature.

Theatre Arts 1, 4aR, 112a, 122a, 152b.

Foreign Language and Literature Requirement

The foreign language and literature requirement for the degree may not be postponed and must be completed within three years of matriculation through the satisfactory completion of the introductory literature course (10, 100, or two semester courses at a more advanced level in one of the following languages: French, German, Greek, Hebrew, Italian, Latin, Russian, Spanish). The foreign language and literature requirement may also be met with a score of 3 or higher on the appropriate Advanced Placement examination. Failure to meet the foreign language and literature requirement within the stipulated period may cause the student to be placed on probation.

English Composition Requirement

Each student is required to take English Composition 1a or 1aR, unless admitted to English Composition 2a. Any student with a score of 3 or more on the Advanced Placement Examination or a score of 700 or better on the Aptitude and English Verbal Achievement Test will be exempt from this requirement. Students with a grade of less than 3 on the Advanced Placement Examination may be granted exemption by the Department of English and American Literature.

Other Freshman Requirements

Elective Courses

A freshman may not enroll in courses numbered 90 or above unless he presents to the Registrar the written consent of the instructor in the course, the Chairman of the Department, and his faculty adviser, or is placed in a higher numbered course in accord with existing University procedures.

Physical Education

Every freshman must enroll in Physical Education whether or not he is an athlete, has a medical excuse, is a veteran, or has previously fulfilled his college Physical Education requirement elsewhere. He must satisfactorily complete the required work in Physical Education as part of his degree requirements. These requirements include participating two hours per week in class, passing a required swimming test or showing evidence of having passed the Red Cross Intermediate Standard Test or higher. A male student must also pass the Physical Fitness Test. The Physical Education classes consist of instruction in flag football, basketball, volleyball, bowling, tennis, golf, badminton, wrestling and softball for men. Women have classes in hockey, body mechanics, fencing, golf, tennis, dancing, bowling, basketball and softball.

Concentration Requirements

General Requirements

To obtain a Bachelor's degree in the College of Arts and Sciences a student must complete the requirements of a field of concentration. Before the end of his freshman year each student will choose a provisional field of concentration after consultation with a faculty adviser in that Department. An entering student who has reached a tentative decision regarding his future field of interest should elect the basic introductory course in this area in his freshman year and cover more of the groundwork in the elective courses of his sophomore year.

Completion of a Field of Concentration

To enroll in courses fulfilling his concentration requirements, a student must have received a C— or better in prerequisite courses.

A 2.0 (C) average is normally required in courses offered for completion of requirements for concentration.



Looking toward Olin-Sang American Civilization Center

Degrees With Honor

A student whose grade point average at the end of the junior year is 3.0 or above in his field of concentration may petition the department concerned for permission to work for honors in his field of concentration. Departmental distinction is awarded by each Department or Interdepartmental Committee.

The awards of *Cum Laude* and *Magna Cum Laude* will be based on a grade point average set by the Faculty.

The award of *Summa Cum Laude* will be based upon a grade point average set by the Faculty and on the award of distinction in the field of concentration.

School of Creative Arts

Requirements for concentration in each department are listed on the pages indicated.

	<i>Page</i>
1. Fine Arts	104
2. Music	127
3. Theatre Arts	159

Candidates for honors must have the approval of the appropriate department.

School of Humanities

The School of Humanities offers the undergraduate a systematic introduction to our literary and philosophical heritage. Requirements for concentration and honors are listed on the pages indicated.

	<i>Page</i>
1. Classics	92
2. Comparative Literature	93
3. English and American Literature	101
4. English and Classics	103
5. French	108
6. German	112
7. Near Eastern and Judaic Studies	131
8. Philosophy	136
9. Russian	151
10. Spanish	158

A student concentrating in languages and literature is advised to take Theory of Language (English 192b, French 112a, German 112a, NEJS 112a, Russian 112a, Spanish 112a) in his area.

To be eligible for honors work, a candidate, at the end of his junior year, must have obtained an average of 3.0 or better in his field of concentration and an average of 2.0 in all other courses. He must also have the approval of the department in which he wishes to take honors.

School of Science

The School of Science provides the student with the basic scientific training to qualify him for entry into graduate school or for work at the intermediate level in his scientific field. The student is encouraged to take such



courses outside the School of Science as will best broaden and further his intellectual growth. Requirements for concentration are listed on the pages indicated.

	<i>Page</i>
1. Biology	83
2. Chemistry	88
3. General Science	111
4. Mathematics	123
5. Physics	139

To be eligible for honors work, a candidate, at the end of his junior year, must have obtained an average of 3.0 or better in his field of concentration and an average of 2.0 in all other courses. He must also have the approval of the department in which he wishes to take honors.

School of Social Science

Requirements for concentration are listed on the pages indicated.

	<i>Page</i>
1. American Civilization	75
2. Anthropology	77
3. Economics	96
4. History	114
5. Latin American Studies	122
6. Politics	142
7. Psychology	146
8. Sociology	153

A student in the School of Social Science who is a candidate for a degree with honors will, in addition to the designated requirements for the several fields, also enroll in senior research (99). Candidates for honors must have the approval of the appropriate department. One reader of a senior thesis must come from outside the department of concentration.

Pre-Professional Training

The Brandeis curriculum does not develop patterns of courses conceived with specific vocational goals in mind. The Brandeis student receives a broad education in the liberal arts and sciences which will prepare him for further study in specific professional and vocational fields at the graduate level. On the premise that a liberal arts education is the best preparation for professional training, the College of Arts and Sciences does not recommend highly specialized courses for pre-professional students.



Pre-Medical and Pre-Dental Students

The Council on Medical Education and Hospitals of the American Medical Association has established three years of college training for the average student as a minimum educational requirement for students entering medical schools and strongly recommends that pre-medical students take the full, four-year college course. The Council and Association of American Medical Colleges have also prescribed a set of minimum requirements for admission to an approved medical school. These requirements include general and organic chemistry, physics, and biology. The Brandeis student can meet them with the following courses: Biology 10 and 11c, Chemistry 10 and 11c or Chemistry 15a, Chemistry 25, Mathematics 10 or 11 or 12, and Physics 10 or 11 plus Physics 19c.

These are *minimum requirements*. Many medical schools require more than the specified minimum in certain areas. In order to insure that such additional or specialized requirements can be met in proper sequence, a pre-medical student should arrange his prospective college program with the faculty adviser for pre-medical students.

In evaluating candidates for admission, medical schools attach considerable importance to recommendations by faculty committees before which each student generally appears in his junior year. A potential candidate should arrange his schedule, whenever possible, to assure that he has taken

or is in the process of taking the courses generally required as listed above at the time he appears before the Brandeis Committee on Recommendations to Medical and Dental Schools.

Most medical schools advocate a broad liberal arts education in addition to specific course requirements. The medical schools do not advocate any specific field of concentration to undergraduates, and the field of concentration is not a determining factor in admission to medical schools so long as the specific course requirements of that medical school are met. While many pre-medical students concentrate in biology, chemistry, or general science, concentration in the fields of humanities, social sciences, or creative arts allows ample electives to satisfy the requirements of most medical schools.

The same observations apply in large part to the pre-dental student or those planning careers as veterinarians, medical technicians, or practitioners in related fields. Medical schools and dental schools require an aptitude examination ordinarily taken by the student in the spring of his junior year.

Preparation For Teaching

While the University does not offer a field of concentration in education, it does offer several courses that help to meet the teacher certification requirements of individual states. Many students are able to meet certification requirements during their four regular undergraduate years at Brandeis by attending one six-week summer school session. A student interested



in preparing for a career as a teacher in primary and secondary school should inform himself concerning the certification requirements in the state in which he plans to seek employment and should consult the faculty adviser on education.

Brandeis University participates in the Twenty-nine College Cooperative Plan of the Harvard University Graduate School of Education, created to encourage liberal arts college graduates to enter teaching careers. A student recommended for admission by a member college is given priority in admission and is eligible for the scholarship funds designated for the Plan.

Other Pre-Professional Students

Other pre-professional students should consult the faculty advisers designated to counsel students in the fields of law, engineering, business administration, social work, and religion.

Off-Campus Study

Summer School Credit

A student may attend daytime summer schools of six weeks or more conducted by accredited colleges and universities for credit toward the bachelor's degree. Each course must be approved in advance by the academic department concerned, the student's faculty adviser, and the Administrative Committee. Only work of honor grade (A or B) will receive credit. A student may earn no more than twelve credits in one summer nor more than twenty-four credits toward the degree. Petitions to the Administrative Committee for summer-school credit are handled through the Office of the Registrar.

Students who wish to enroll for credit in summer study abroad programs must petition the Administrative Committee of the Faculty for permission in advance of enrollment. The Committee must be satisfied that the course or courses the student intends to take for credit are of good quality and that grades and credits can be ascertained before permission is granted.

Study Abroad

The Brandeis student may participate in a variety of educational programs in foreign countries and receive credit toward his Brandeis degree for such study abroad. Interested students may seek further information and advice from the Office of the Dean of Students.

A student who meets the qualifications set by the Faculty and who is approved by the Administrative Committee may be allowed to participate in the Jacob Hiatt Institute in Israel, the Sweet Briar Junior Year in France Program, or the Smith College Junior Year Abroad Program. The Committee may permit a student to enroll in his junior year in other programs sponsored by American institutions at foreign universities, or, in exceptional cases, to enroll in a special individual program of study. Where advisable, individual students may be interviewed by the Administrative Committee in regard to their proposed junior year plans. The Committee reserves the right to limit the number of students granted such permission. On satisfactory completion of the approved junior year abroad, a student is granted thirty semester-hours' credit.

The Jacob Hiatt Institute in Israel

Under this Brandeis program, inaugurated in 1961, a qualified student may be permitted to study in Israel in the summer following the sophomore year and in the fall semester of the junior year. A qualified student who has completed two years in residence at another college or university may be admitted to the program. Applications, which must be received by March 1, 1966, should be filed with the Chairman of the Hiatt Institute Selection Committee, Brandeis University.

The Hiatt Institute, which incorporates the former Junior Year in Israel program, is devoted primarily to the study and observation of contemporary Israel, its history, and its social and political institutions. Students are based in Jerusalem, but there is considerable travel and local study in all parts of Israel and into every phase of Israeli life. Intensive instruction in Hebrew is provided during July and August. The major courses of instruction, of which three are required of each student, are conducted in English. On satisfactory completion of the program, each student is awarded sixteen semester-hours' credit.

Academic prerequisites preferably should include introductory courses in Political Science and in Sociology.

The courses offered in 1965 are in the fields of Hebrew, Modern Jewish history, Israel political institutions and Israel social institutions.

A University-appointed Director administers the Hiatt Institute. He supervises the course of studies, arranges transportation to Israel, living accommodations in Israel, lectures, tours, visits with Israeli officials and other special features of the program. The comprehensive fee for the six-month program is \$2,000. This includes two-way transportation to Israel, board and room, tuition, and medical care. Some partial scholarships are available for deserving students.



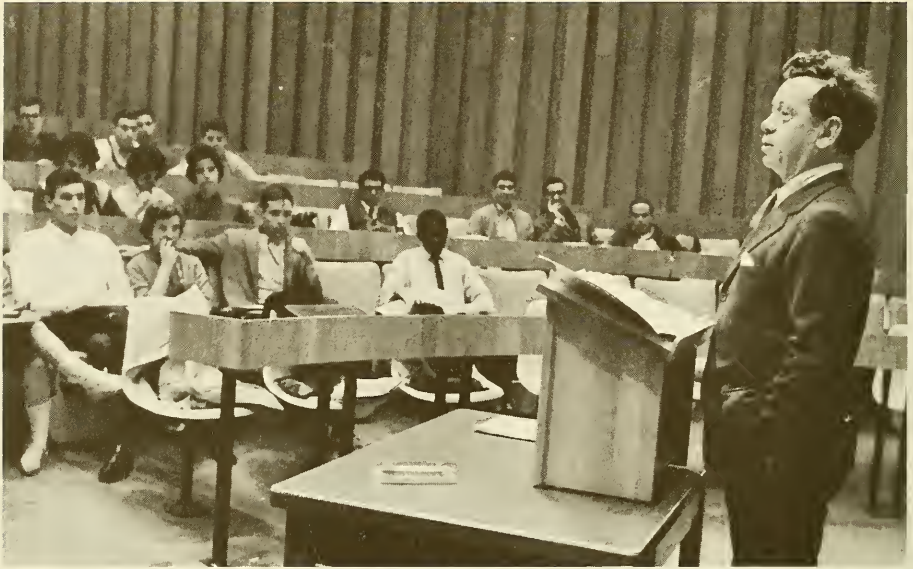
Hiatt Institute students in Israel

Sweet Briar College Junior Year in France

Under this plan, students selected spend their junior year in France pursuing a course of study at the University of Paris. The group is under the supervision of Sweet Briar College, Sweet Briar, Virginia, which arranges round-trip travel, board and room in French homes, sight-seeing trips, enrollment in courses, guides, and supplementary instruction by a staff of native-born instructors.

Smith College Junior Year Abroad

The Smith College Junior Year Abroad Program includes junior year in France, Italy, Spain, and Geneva. The first three are intended primarily for language majors and the latter primarily for students concentrating in economics, history, politics, or sociology.



Courses of Instruction

The undergraduate courses of instruction under the faculty of arts and sciences are listed below. Courses meet for three hours a week unless otherwise specified.

- a fall semester course
- aR identical course given in spring semester
- b spring semester course
- bR identical course given in fall semester
- c semester course meeting throughout the year
- H Jacob Hiatt Institute course

Semester courses normally carry three credits and year courses, six. Exceptions are noted under the individual course descriptions. Additional credits are given for laboratory hours, as indicated in the course description. Certain science courses require a "c" laboratory course taken concurrently.

A student may take either half of a year course for credit with the approval and consent of the course instructor, the faculty adviser, and the registrar, on forms obtained at the Office of the Registrar. Certain courses, for example the 1 and 2 courses in any foreign language, cannot be dropped with credit at the end of the first semester.

The University reserves the right to make any necessary changes in the offerings without prior notice.

American Civilization

Executive Committee: Associate Professor RAYMOND S. GINGER, *Chairman*; Professors MORTON KELLER, MARVIN MEYERS, JOHN P. ROCHE.

Staff: Professors LAWRENCE H. FUCHS, MAX LERNER; Assistant Professors JEROLD S. AUERBACH, DAVID H. FISCHER.

Requirements for Concentration

A. Required of all Candidates: (a) American Civilization 97c; History 51a, 51b; (b) either American Civilization 100 or 102; (c) Senior Comprehensive Examination. The Comprehensive Examination will deal with diverse phases of the history of American civilization, and, to prepare for it, a student should plan his program carefully with his faculty adviser. Helpful courses can be found in many areas: American history, literature, social and political institutions, philosophy and religion, art.

B. Additional requirement for degrees with distinction: American Civilization 99.

*AMERICAN CIVILIZATION 2. Contemporary American Life and Thought

*AMERICAN CIVILIZATION 60b. Social and Physical Mobility in American Life

*AMERICAN CIVILIZATION 80b. The United States since World War II

AMERICAN CIVILIZATION 97c. Junior Tutorial

Each student will pursue a program of reading in the important literature bearing on the character and history of American civilization.

Prerequisites: History 51a and 51b or permission of the Chairman.

Mr. Auerbach

AMERICAN CIVILIZATION 98c. Readings in American Civilization

Independent reading, research and writing on a subject of the student's interest, under the direction of a faculty supervisor.

Available to juniors and seniors with the permission of the Chairman. *Staff*

AMERICAN CIVILIZATION 99. Senior Research

Seniors who are candidates for degrees with distinction should register for this course and, under the direction of a faculty supervisor, prepare a thesis on a suitable topic. *Staff*

AMERICAN CIVILIZATION 100b. Senior Seminar

Seminar on the New Deal.

Prerequisite: History 154b or permission of the instructor.

Each student is expected to do research on a single topic, bringing to bear on it the methods and insights from the several disciplines. Instruction is on a collaborative basis, in small classes meeting weekly. *Mr. Auerbach*

*AMERICAN CIVILIZATION 170b. Americans Overseas

*AMERICAN CIVILIZATION 172a. The Presidency and the People

*Not to be given in 1965-66.

The following courses offered in 1965-66 will also be appropriate in meeting requirements for concentration in American Civilization:

ECONOMICS 34a. Government: Expenditures and Taxation	<i>Mr. Hartman</i>
ECONOMICS 37a. The Political Economy of Cities	<i>Mr. Cohen</i>
ECONOMICS 150b. Social Economics	<i>Mr. Berliner</i>
ENGLISH 8b. American Literature from 1832 to 1900	<i>Mr. Hindus</i>
FINE ARTS 122a. American Painting and Architecture	<i>Mr. Phillips</i>
HISTORY 51a. History of United States to 1865	<i>Mr. Ginger</i>
HISTORY 51b. History of United States since 1865	<i>Mr. Auerbach</i>
HISTORY 151a. American Colonial and Revolutionary History	<i>Mr. Fischer</i>
HISTORY 151b. The New American Republic	<i>Mr. Fischer</i>
HISTORY 152b. American Democracy	<i>Mr. Meyers</i>
HISTORY 153b. Civil War and Reconstruction	<i>Mr. Fischer</i>
HISTORY 154b. Modern America	<i>Mr. Ginger</i>
HISTORY 155a. Civil Liberties in America	<i>Mr. Auerbach</i>
HISTORY 158b. Proseminar in American Industrial Growth, II	<i>Mr. Ginger</i>
HISTORY 162a. The American Political Tradition, I	<i>Mr. Meyers</i>
HISTORY 162b. The American Political Tradition, II	<i>Mr. Meyers</i>
HISTORY 163a. American Intellectual History to 1865	<i>Mr. Ginger</i>
HISTORY 163bR. American Intellectual History in the Twentieth Century	<i>Mr. Lerner</i>
HISTORY 164. History of American Political Institutions	<i>Mr. Keller</i>
HUMANITIES 4. Classics of American Literature	<i>Mr. Swiggart</i>
NEJS 160a. American Jewish Social and Institutional History	<i>Mr. Halpern</i>
POLITICS 12a. American Government	<i>Mr. Woll</i>
POLITICS 12b. American Government	<i>Mr. Woll</i>
POLITICS 21a. President and Congress	<i>Mr. Goldsmith</i>
POLITICS 21b. American Political Parties	<i>Mr. Goldsmith</i>
POLITICS 121a. Problems in Community Government	<i>Mr. Long</i>
POLITICS 121b. Seminar in Community Government	<i>Mr. Long</i>
POLITICS 128a. Public Administration and Public Policy	<i>Mr. Woll</i>
SOCIOLOGY 100a. Sociology of the Community	<i>Mr. Stein</i>
SOCIOLOGY 112b. Social Stratification	<i>Mr. Fellman</i>
SOCIOLOGY 116b. Racial and Cultural Contacts	<i>Mr. Hughes</i>

SOCIOLOGY 117a. Sociology of Work and Occupations	<i>Mr. Hughes</i>
SOCIOLOGY 127b. Health and Society	<i>Mr. Zola</i>
SOCIOLOGY 132a. American Social Patterns	<i>Mr. Weiss</i>
THEATRE ARTS 125a,b. History of the American Drama	<i>Mr. Clay</i>

Anthropology

Professor ROBERT A. MANNERS, *Chairman*; Professor HELEN CODERE; Associate Professor JOEL M. HALPERN; Assistant Professors GEORGE L. COWGILL, RICHARD G. FOX, DAVID KAPLAN (*Student Adviser*), KARL REISMAN, MARGUERITE S. ROBINSON, BENSON SALER, ALEX WEINGROD.

Requirements for Concentration

A. Required of all Candidates: Anthropology 1a and 1b, 151a. Select one semester course from the following: Anthropology 11a, 13b, 129a, 133b, 135a, 136b, 137a, 139b, 141b, 142b, 143a.

B. Elective Courses: Concentrators must elect the equivalent of three year courses from those listed in the departmental offerings, and the equivalent of any year course offered by the School of Social Science that has been approved by the faculty adviser.

C. Additional requirement for degrees with distinction: Anthropology 99.

D. Those planning to go on to graduate work should consult carefully with their adviser regarding course selections. Where prerequisites are listed, they must be fulfilled satisfactorily before enrollment in the stipulated course, except under extraordinary circumstances with permission of the Chairman of the Department.

Primarily for Undergraduates

ANTHROPOLOGY 1a. Introductory Anthropology

General introduction to anthropological subject matter and concepts: prehistoric development of culture and of human evolution.

Section 1: *Mr. Fox*

Section 2: *Mr. Kaplan*

ANTHROPOLOGY 1aR. Introductory Anthropology

Mr. Kaplan

ANTHROPOLOGY 1b. Introductory Anthropology

General introduction to anthropological subject matter and concepts: ethnography and social anthropology. Normal continuation of Anthropology 1a.

Section 1: *Mr. Fox*

Section 2: *Miss Codere*

ANTHROPOLOGY 1bR. Introductory Anthropology

Mrs. Robinson

*ANTHROPOLOGY 11a. Anthropology and the Problems of Developing Areas

An analysis of the social, economic and cultural forces at work in selected developing countries and the impact of western civilization in these areas.

*ANTHROPOLOGY 13b. Africa and the Modern World

*Not to be given in 1965-66.

ANTHROPOLOGY 14a. The Negro in the New World

The background and history of slavery. The Negro in the United States and selected areas of the Caribbean and Latin America in the post-slavery period.

Mr. Manners

ANTHROPOLOGY 98a and b. Readings in Anthropology

Readings and reports under the direction of a faculty supervisor. Open only to seniors with permission of the department.

Staff

ANTHROPOLOGY 99. Senior Research—Honors

Seniors who are candidates for degrees with distinction in Anthropology are required to register for this course and, under the direction of a member of the faculty, prepare an honors thesis on a suitable topic.

Staff

For Graduates and Undergraduates

Undergraduates will be admitted to any course above 115 only with permission of the instructor.

ANTHROPOLOGY 102a. Anthropological Linguistics I

Training in the recording and analysis of spoken languages. Consideration of some major theories of language. Role of language in nature and culture.

Mr. Reisman

ANTHROPOLOGY 102b. Anthropological Linguistics II

Historical relations among languages. Linguistic evidence in the study of prehistory. Language contact. Study of speech communities and ethnography of speaking. Semantic analysis. Expressive language, paralinguistics, kinesics, speech surrogates.

Mr. Reisman

ANTHROPOLOGY 103b. Language and Culture

Language and thought; speech differences within societies; processes of change; expressive language and poetics; problems of translation; extension of linguistic methods to other modes of communication. No previous training in linguistics is necessary.

Mr. Reisman

ANTHROPOLOGY 110b. Physical Anthropology

An introduction to the major fields of physical anthropology; human evolution, genetics, anatomy, and modern views of race.

Mr. Cowgill

ANTHROPOLOGY 112a. Culture and Biology*ANTHROPOLOGY 121a. Quantitative Techniques in Anthropology**

(formerly 182a)

An introduction to the use of statistics and related techniques in anthropological research, emphasizing non-parametric methods and cross-cultural sampling.

Mr. Cowgill

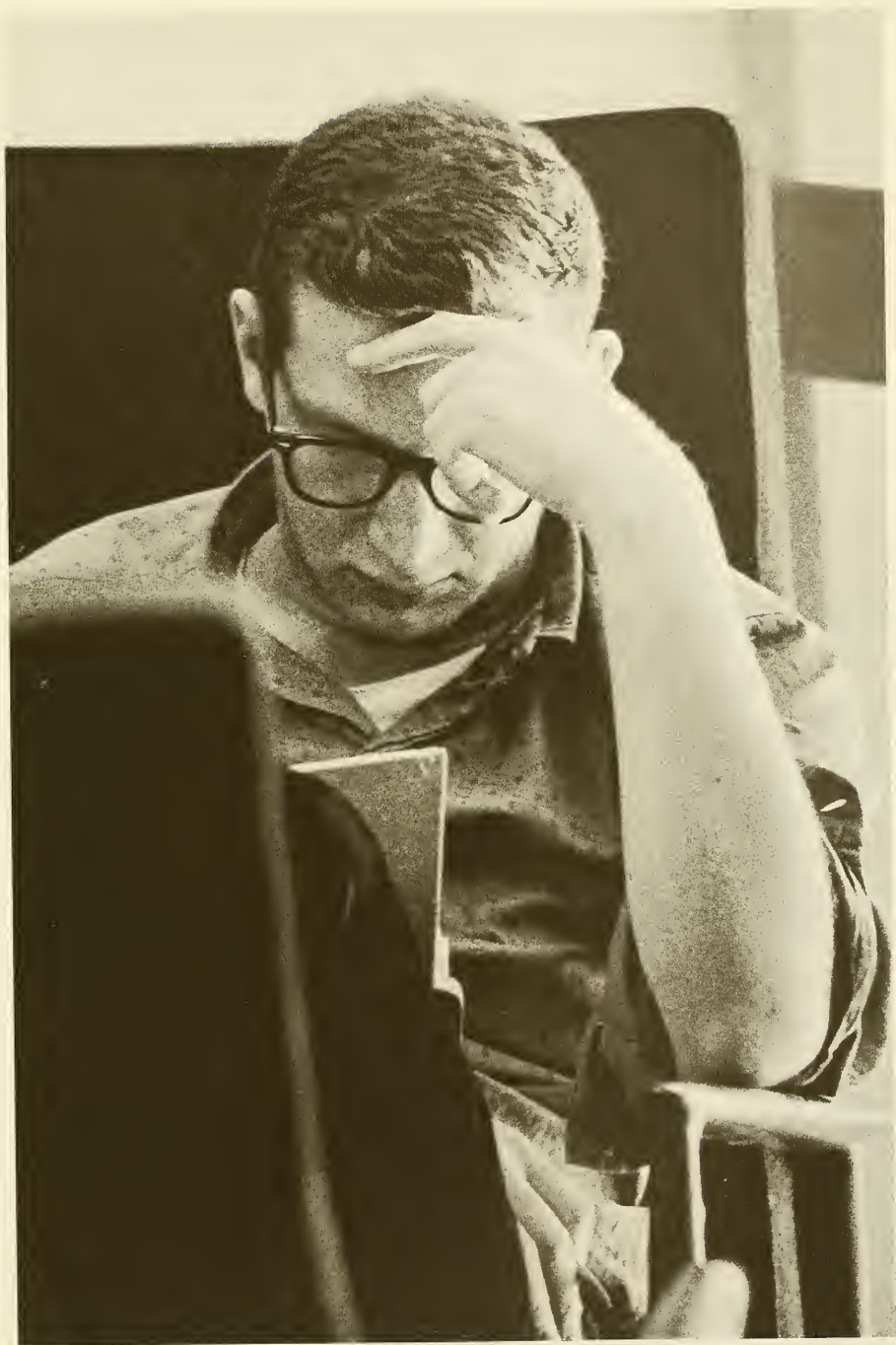
ANTHROPOLOGY 122a. Archeological Methods

(formerly 109a)

An introduction to archeological methods, including field and laboratory procedures; scientific apparatus useful in detection, dating, and analysis of prehistoric materials; problems in the processing and presentation of archeological data; and the nature of archeological theory.

Mr. Cowgill

*Not to be given in 1965-66.



*ANTHROPOLOGY 125a. Old World Archeology
(formerly 110a)

*ANTHROPOLOGY 126b. New World Archeology
(formerly 111b)

ANTHROPOLOGY 127b. Origins of Early Civilizations of the World
(formerly 114a)

The development of the earliest food-producing communities and the rise of the earliest civilizations of the Old and New World, based on archeological data. The emphasis is comparative and theoretical. *Mr. Cowgill*

*ANTHROPOLOGY 128b. Civilizations of Middle America
(formerly 118b)

*ANTHROPOLOGY 129a. Civilizations of South America
(formerly 121b)

ANTHROPOLOGY 133b. Peoples and Cultures of Africa

An examination of the indigenous organization of representative African societies in their ecological and historical settings. *Mr. Manners*

*ANTHROPOLOGY 134b. Tribe and Nation-State in Africa
(formerly 159b)

ANTHROPOLOGY 135a. Peoples and Cultures of India
(formerly 125b)

An examination of institutions of representative Indian peoples and their relationship to the wider Indian society. *Mrs. Robinson*

ANTHROPOLOGY 136b. Cultures of the Far East
(formerly 183a)

China, Japan and Korea. Problems of evolution and development in a context of diverse influences. *Mrs. Robinson*

*ANTHROPOLOGY 137a. Cultures of Southeast Asia
(formerly 148b)

Survey of civilizations and tribal peoples in the area between India and China. Emphasis on cultural inter-relationships in the framework of both historical and contemporary problems.

*ANTHROPOLOGY 138b. Cultures of Eastern Europe and the Soviet Union
(formerly 147b)

Social organization, religion, class structure, and other topics dealing with the various ethnic groups in Eastern Europe and the U.S.S.R., both past and present. Agricultural, nomadic and urban societies in this area, including central Asia, will be studied.

ANTHROPOLOGY 139b. Peoples and Cultures of the Mediterranean
(formerly 144b)

A comparative analysis of contemporary rural peoples in the Mediterranean region (Europe, North Africa, Middle East) and their relationships to urban settings. *Mr. Weingrod*

*Not to be given in 1965-66.

ANTHROPOLOGY 141b. The American Indian

(formerly 16b)

A survey of the peoples and cultures in aboriginal North America. *Miss Codere****ANTHROPOLOGY 142b. Peoples and Cultures of the Caribbean**

(formerly 101b)

ANTHROPOLOGY 143a. Modern Cultures of Middle America

(formerly 120b)

Contemporary Indian and Ladino societies.

*Mr. Saler***ANTHROPOLOGY 151a. Social Organization**

(formerly 128a)

Theories of social organization, the inter-relations of social institutions, current anthropological methods of interpretation and analysis.

*Mr. Weingrod***ANTHROPOLOGY 151b. Social Organization**

(formerly 128b)

This course, a continuation of 151a, will emphasize structural analysis. Designed primarily for advanced undergraduate and graduate students.

*Mrs. Robinson***ANTHROPOLOGY 152a. Economic Anthropology**

(formerly 116a)

Economic institutions of nonindustrial societies.

*Miss Codere****ANTHROPOLOGY 153b. Primitive Art**

(formerly 104b)

ANTHROPOLOGY 154a. Primitive Religion

(formerly 106bR)

An exploration of belief and behavior in societies of non-literate peoples with reference to theories concerning the origins and functions of religion.

*Mr. Saler***ANTHROPOLOGY 155b. Culture and Personality**

(formerly 152a)

An examination of the relationships between sociocultural systems and individual psychological processes with a critical evaluation of selected theories and studies bearing on this problem.

Mr. Saler

*Not to be given in 1965-66.

The Academic Quadrangle

*ANTHROPOLOGY 156a. Political Anthropology
(formerly 140a)

*ANTHROPOLOGY 157b. Cultural Evolution
(formerly 130b)

*ANTHROPOLOGY 158b. Folk Literature
(formerly 112b)

ANTHROPOLOGY 159b. Cultural Ecology
(formerly 180b)

An analysis and criticism of various theories of cultural ecology, and the application of cultural ecological concepts to specific research problems. *Mr. Fox*

*ANTHROPOLOGY 160a. Applied Anthropology
(formerly 107a)

ANTHROPOLOGY 161b. Culture and Cognition
(formerly 160b)

An exploration of formal techniques utilized by anthropologists in the attempt to discover and analyze systems of meaning and categorization. *Mr. Saler*

*ANTHROPOLOGY 162b. Infra-human Social Behavior
(formerly 184b)

*ANTHROPOLOGY 163a. Community Studies in Anthropology
(formerly 119a)

ANTHROPOLOGY 164b. Nationality and Culture Change
(formerly 135b)

Explores the relationship between the cultural concept of nationality and the processes of economic development in communist and other societies. *Mr. Halpern*

ANTHROPOLOGY 165a. Social Stratification in Pre-Industrial Societies

The nature and function of inequalities of status and/or wealth, and the relation of these factors to other aspects of the culture. *Mr. Fox*

*ANTHROPOLOGY 166b. Social and Cultural Change
(formerly 170b)

ANTHROPOLOGY 167b. Modernization and Modernization Movements
(formerly 108b)

A comparative analysis of programs of economic, political, and social reform. National modernization programs, particularly within village communities in Asia and Latin America. *Mr. Weingrod*

ANTHROPOLOGY 175a. Proseminar in Anthropological Method and Theory: I
(formerly 155a)

Analysis of representative classics in anthropology.

Miss Codere and Mr. Reisman

ANTHROPOLOGY 175b. Proseminar in Method and Theory in Cultural Anthropology: II
(formerly 155b)

The development of anthropological theory, major present-day trends and their relation to problems of research. *Mr. Kaplan*

*Not to be given in 1965-66.

See Graduate School catalog for courses numbered 200 and above.

BACTERIOLOGY

See Biology 32a.

Biochemistry

Professor NATHAN O. KAPLAN, *Chairman*; Professor WILLIAM P. JENCKS, *Vice-Chairman*; Professors ABRAHAM GOLDIN, LAWRENCE LEVINE, WILLIAM F. LOOMIS; Associate Professors ROBERT H. ABELES, GERALD D. FASMAN, LAWRENCE GROSSMAN, MARY ELLEN JONES, JOHN M. LOWENSTEIN, FARAHE MALOOF, GORDON H. SATO, MORRIS SOODAK, HELEN VAN VUNAKIS; Assistant Professors DAVID M. DAWSON, THOMAS C. HOLLOCHER, JR., JOSEPH V. MESSER, WILLIAM T. MURAKAMI.

BIOCHEMISTRY 99. Research for Undergraduates

Prerequisite: Approval of department.

Mr. Soodak and Staff

For Undergraduate and Graduate Students

BIOCHEMISTRY 100a. Introductory Biochemistry

Chemistry and metabolism of compounds of biological importance, introduction to enzyme reactions, energy metabolism, cellular function and differentiation.

Prerequisite: Chemistry 25a,b.

Four classroom hours a week.

Messrs. Soodak, Loomis and Kaplan

BIOCHEMISTRY 101. Advanced Biochemistry

Enzyme reactions including energetics, kinetics, and reaction mechanisms. Metabolism of carbohydrates, lipids, amino acids, nucleic acids, vitamins and coenzymes, hormones and inorganic substances. Coupled enzyme reactions and the synthesis of macromolecules.

Prerequisites: Chemistry 25a,b, Biochemistry 100a or their equivalent. Some background in elementary physical chemistry is recommended but is not required.

Miss Jones and Staff

BIOCHEMISTRY 103. History of Biochemistry

A discussion of significant discoveries which have led to our present concepts of biochemistry.

Prerequisite: Biochemistry 100a.

Mr. Kaplan and Staff

See Graduate School catalog for courses numbered 200 and above.

Biology

Professor MARTIN GIBBS, *Chairman*; Professors HERMAN T. EPSTEIN, ALBERT KELNER, MAURICE SUSSMAN, EDGAR ZWILLING; Associate Professor JEROME A. SCHIFF; Assistant Professors CHANDLER FULTON, ATTILA O. KLEIN, GJERDING OLSEN (*Student Adviser*), HENRY E. SCHAFFER, PHILIP A. ST. JOHN, MIRIAM F. SCHURIN; Mrs. ELSIE HASSKARL, Dr. HARRIET K. MEISS.

Requirements for Concentration

A. Advanced Standing: Credit for Biological Science 1 or Biology 10 and 11c can be given upon successful completion of the Advanced Placement Examination with a grade of 3, 4, or 5. In order to concentrate in Biology, however, any such candidate must also pass a departmental examination which is equivalent to that given in Biology 10 and 11c.

Entering students are eligible to receive advanced standing for Biology 10 upon successful completion of a departmental examination; the approval of the instructor, the biology staff and the Administrative Committee is required.

A student is eligible for advanced standing in *any course* in the Biology Department if he is (a) recommended for advanced standing by the staff member teaching the course in question and (b) if this recommendation is approved by the biology staff. Minimum requirement is the satisfactory passing of an examination equivalent to the final examination normally administered for the course for which advanced standing is requested. (See Page 41, petitions.)

B. Required of All Candidates: Biology 10 and 11c, 30a, 31b, 40a; Chemistry 10a,b, 25a,b; Mathematics 10 or its equivalent; Physics 10 or 11 and 19c.

C. Elective Courses: All candidates must select two semester courses from the following: Biology 21a, 30b, 32a, 33b, 34a, 35b, 41b; Biology courses numbered between 100 and 199; Biochemistry 100a; Chemistry 30a, 41a,b.

D. Students who wish to be considered for a distinction program in Biology should have a generally satisfactory academic record; honors grades in the core Biology courses are required. A candidate for distinction is required to petition the Biology staff at the beginning of his senior year. If action on this petition is favorable an honors program will be devised for the student. This may include laboratory research (under Biology 99), library research, a comprehensive program of appropriate additional undergraduate and graduate courses, or any combination of these. This honors program must be approved by the staff at the beginning of the senior year and must be successfully completed by the student in order to obtain distinction in Biology.

E. Students taking Biology 99 may receive from six to nine credits per year for this course. The number of credits will be determined by the research supervisor of the 99 course and the Department Chairman. In general, any senior who is taking Biology 99 is eligible for a four-course load during the year when he is taking Biology 99. A satisfactory written report including the results of an independent investigation is required by the Department.

F. Satisfactory grades must be maintained in all Biology courses offered for concentration, and no more than one D will be allowed in any other course offered toward the requirement in this Department.

Primarily for Undergraduates

BIOLOGICAL SCIENCE 1

This course emphasizes the fundamental chemical and physical properties common to living organisms and their parts. A detailed study of cell structure will prepare the student for a rigorous analysis of the chemical machinery of the cell, including aspects of energetics and synthesis, leading to an understanding of modern concepts of inheritance and the origin of variability. The interactions of cells in forming organisms and of organisms with one another and with their environment, will be analyzed by a study of the physiological processes underlying

responsiveness, reactivity, and reproduction. The course will close with a consideration of current, unresolved problems that confront the biologist and of which the informed citizen should be aware.

Two lectures and one discussion section a week. *6 credits for year.*

Students may elect, in lieu of the discussion section, a three-hour laboratory section a week. Under exceptional circumstances, Biological Science 1, passed with an honor grade, may be counted as fulfilling the requirements in General Biology in the several fields of concentration in the School of Science. Premedical students should take Biology 10 and 11c.

This course cannot be used to satisfy medical school requirements.

Messrs. Olsen, St. John and Epstein

BIOLOGY 10. General Biology

Introduction to the more important principles of biology. This course is a prerequisite for concentration in Biology and for most courses offered in Biology. In general, students will be required to have had a course in chemistry prior to enrolling in Biology 10. All students enrolled in Biology 10 are required to enroll in Biology 11 concurrently.

Prerequisite: Chemistry 10.

Three classroom hours a week. *6 credits per year.*

Messrs. Klein, Schaffer and Miss Meiss

BIOLOGY 11c. Laboratory Course in General Biology

Concurrent enrollment in Biology 10 is required. Laboratory course to supplement Biology 10.

Four laboratory or discussion hours per week. *2 credits per year.*

Laboratory fee: \$10 per semester.

Messrs. Klein, Schaffer, Miss Meiss and Mrs. Hasskarl

***BIOLOGY 21a. Intermediate Zoology: Biology of the Invertebrates**

BIOLOGY 30a. Principles of Genetics

An intensive consideration of the gene, from its development as biology's most abstract concept to contemporary studies of its molecular nature and their consequence. Lectures, discussions of original research papers, and experiments will be intermixed to display the operational basis on which the gene theory rests.

Prerequisites: Biology 10 and 11c and Chemistry 25a,b.

Three classroom and three laboratory hours a week. *4 credits.*

Laboratory fee: \$15.

Mr. Fulton

BIOLOGY 30b. Intermediate Genetics

Synthesis of molecular genetics with modern ideas in integrative genetics and of evolution, with the aim of giving students insights which might aid their understanding of man and his culture. Biology 30a and 30b together present a balanced introduction to modern genetics. Students majoring in fields outside of science welcomed.

Prerequisite: Biology 30a. This requirement will be dropped for graduate students who may be expected to review basic genetics by independent study—and undergraduate students who satisfy the instructor of their serious interest and capability.

Three classroom hours a week.

Mr. Kelner

*Not to be given in 1965-66.

BIOLOGY 31b. Cellular Physiology and Biochemistry

Basic biological problems at the cellular level. Chemical composition of cells. Intracellular organization of enzymes, functions of nucleus, cytoplasm, mitochondria, and microsomes; membrane permeability.

Prerequisites: Biology 30a; Chemistry 25a,b.

Three classroom hours a week.

Mr. Schiff

BIOLOGY 32a. General Microbiology

An introduction to the biology (*i.e.*, genetics, physiology, morphology, and development) of primitive organisms, including the viruses, bacteria, yeasts, molds, and protozoa. The laboratory is designed to give the student a grounding in bacteriological techniques.

Prerequisite: Chemistry 25a,b (may be taken concurrently).

Three classroom and four laboratory hours a week. *4 credits*.

Laboratory fee: \$15.

Mr. Sussman

BIOLOGY 33b. Algal Microbiology*BIOLOGY 34a. Principles of Evolution**

Concepts of mechanisms of evolution; evidence that it has occurred, courses that it has taken, and conditions under which evolution may have taken place.

Prerequisites: Biology 10 and 11c or Biological Science 1.

Three classroom hours.

Mrs. Schurin

BIOLOGY 35b. Descriptive Anatomy of the Vertebrates*BIOLOGY 40a. Developmental Biology**

A consideration of developmental events in various organisms, with emphasis on the mechanisms by which organisms achieve an orderly progression of changes during their life cycles.

Prerequisite: Biology 31b.

Three classroom and three laboratory hours a week. *4 credits*.

Laboratory fee: \$15.

Mr. Zwilling

BIOLOGY 41b. Vertebrate Physiology

The basic principles of the physiology of the vertebrates with special reference to mammals. Examples of contemporary research will demonstrate the methods of attack used in physiological investigations.

Prerequisites: Chemistry 25a,b (may be taken concurrently); Biology 31b.

Three classroom and three laboratory hours a week. *4 credits*.

Laboratory fee: \$15.

Mr. Olsen

BIOLOGY 98a or b. Readings in Biology

This course will be open to exceptionally well-qualified students to serve as an introduction into the research literature of biology.

Admission only with the permission of the department. This is a one-semester course that can be taken either in the Spring or Fall term for a maximum of 3 credits.

Staff

BIOLOGY 99. Senior Research

This course will involve the student in an independent research project conducted under the supervision of a staff member. It will serve as an intensive

*Not to be given in 1965-66.

introduction to specific methods of biological research. The experimental findings are to be presented in writing to the department for approval.

Admission only to students with an honor record in Biology and with the permission of the Department and of the staff member proposed as the research supervisor.

6 to 9 credits by arrangement with the instructor and staff.

Staff

For Undergraduate and Graduate Students

Admission to any of the following courses in Biology requires the consent of the instructor.

***BIOLOGY 101a. General and Comparative Physiology of Animals**

***BIOLOGY 101b. Comparative Physiology of Plants**

BIOLOGY 103b. Physical Basis of Cell Function

Duplications of the physical parameters of cellular organization in the biochemical activities of cells. Starting from the properties of elements and water, there will be an examination of the interrelations of structure and function at the levels of (1) metabolic geography, (2) cellular activity, and (3) genetic control.

Prerequisites: Biology 30a, 31b; Physics 10 or 11; Chemistry 10a,b and 25a,b.

Three classroom hours a week.

Mrs. Schurin

***BIOLOGY 105b. Invertebrate Physiology**

BIOLOGY 106b. Developmental Plant Biology

The physiology and biochemistry of morphogenetic events in the life cycle of higher plants. Differentiation and growth of organs examined in terms of changing metabolic patterns. Results of modern experimental approaches such as cell, tissue and organ culture and radiation studies will be evaluated.

Prerequisites: Biology 31b (may be taken concurrently); Chemistry 25a,b; Biology 10 and 11c.

Three classroom and three laboratory hours a week. *4 credits.*

Laboratory fee: \$15.

Mr. Klein

BIOLOGY 111a. Microbial Genetics

Fundamental principles of genetics as exemplified by modern research with microorganisms. Some informal laboratory experiments may be included.

Prerequisite: Biology 30a, or its equivalent; some background in microbiology equivalent to Biology 32a is advisable, but not required.

Three classroom hours a week.

Mr. Kelner

***BIOLOGY 120b. Advanced Microbiology**

***BIOLOGY 124a. Virology**

BIOLOGY 131a. Problems in Animal Morphogenesis

A discussion of problems concerning mechanisms of development of multicellular animals. The classical experiments of embryology will be re-evaluated by

*Not to be given in 1965-66.

application of modern techniques of tissue dissociation, tissue cultures, etc., as well as by the original approaches.

Three classroom hours; laboratory to be arranged. *4 credits*.

Laboratory fee: \$15.

Mr. Zwilling

BIOLOGY 141b. Physical Biology

Physical methods; treatment of experimental data; physical aspects of vision and hearing; introduction to radiobiology and theoretical biology; forces involved in biological events.

Prerequisite: Satisfactory grades in full-year courses in Biology, Chemistry, Mathematics and Physics.

Three classroom hours.

Mr. Epstein

***BIOLOGY 145b. Optical Methods in Biology**

BIOLOGY 150 or 150a & b. Physical and Mathematical Bases of Molecular Biology

The application of principles of physics, physical chemistry and mathematics to problems of biological interest including thermodynamics, kinetics, photochemistry, radiochemistry, statistics and related numerical methods.

Prerequisites: Mathematics through calculus, some acquaintance with physics and physical chemistry. Students are advised to consult the instructor regarding prerequisites.

Three classroom hours each semester.

Mr. Epstein and Staff

Biology Colloquium

Presentations by staff members and guest lecturers on original investigations. Open to all undergraduate and graduate students of the Department. *No credit*.

See Graduate School catalog for courses numbered 200 and above.

Biophysics Option

To encourage students wishing to concentrate in Biology and to acquire the extra mathematical, physical, and chemical background needed for the area of Biophysics, the Department offers an option which contains a reduced number of biology courses and an increased number of courses in the other science areas.

In addition to the introductory courses in each department, students will take: Biology 30a, 31b, 32a, 141b; Chemistry 25a,b, 41a,b; Mathematics 21 or 22 and 35; Physics 20.

Students interested in this program will find it much to their advantage to be prepared to seek advanced standing which will permit them to take Chemistry 15a and to by-pass introductory biology and physics.

Chemistry

Professor SAUL G. COHEN, *Chairman*; Professors ORRIE M. FRIEDMAN, SIDNEY GOLDEN, ERNEST M. GRUNWALD, HENRY LINSCHITZ; Associate Professors PAUL B. DORAIN, JAMES B. HENDRICKSON, MYRON ROSENBLUM (*Student Adviser*), ROBERT STEVENSON, THOMAS R. TUTTLE, JR.; Assistant Professors ROBERT F. HUTTON, KENNETH KUSTIN (*Graduate Student Adviser*), PETER C. JORDAN, THOMAS N. MARGULIS, E. K. RALPH, III, COLIN STEEL; DR. LUCILLE H. KLEE.

Requirements for Concentration

Members of the class of 1966 may complete either the Requirements for Concentration given below or the Requirements for Concentration given in the Brandeis University Catalog for 1962-63. The following requirements apply to members of the class of 1967 and the classes following.

A. Required of all Candidates: Chemistry 10a,b, and 11c or 15a, 25a,b, 30a or 30aR, 31b or 121aR, 41a,b, 42aR; Mathematics through Mathematics 20, 21 or 22; Physics 10 or 11 and 19c. Admission to Chemistry 15a is by permission of the Department of Chemistry. It is recommended that Chemistry 41a,b be taken in the junior year.

B. Additional requirements for candidates for degrees with distinction: (1) Chemistry 110bR; (2) The equivalent of two semester courses selected from advanced courses in Chemistry, Biochemistry or Physics or, with the approval of the Department of Chemistry, from other upper level offerings in the School of Science. Chemistry 99 or Biochemistry 99 may be used for partial fulfillment of this additional requirement.

C. If the courses selected in B (2) include two semester courses in Chemistry or Biochemistry, this program will meet the standards for certification by the American Chemical Society. A student who wishes to meet these standards must also pass a course in German or pass a German language examination.

Primarily for Undergraduates

CHEMISTRY 10a,b. General Chemistry

Fundamental principles of chemistry: properties of chemical systems, kinetic-molecular theory, chemical equilibrium, atomic structure and the periodic system of the chemical elements, electrochemistry.

All students taking Chemistry 10a,b are required to take Chemistry 11c concurrently.

Three classroom hours a week.

Messrs. Dorain, Margulis and Jordan

CHEMISTRY 11c. General Chemistry Laboratory

Laboratory course to supplement Chemistry 10a,b which must be taken with Chemistry 10a,b.

One lecture and four laboratory hours per week, alternate weeks through the year. 2 credits.

Laboratory fee: \$10.

Mrs. Klee

CHEMISTRY 15a. General Chemistry

A one-semester course which may be taken instead of Chemistry 10a,b by students who have done well in a high school course in chemistry as demonstrated by scores in the College Entrance Examination or in a placement test.

Prerequisite: Permission of the Department of Chemistry.

Three classroom hours a week, one term. Four laboratory hours a week, one term. 4 credits.

Laboratory fee: \$10.

Messrs. Golden and Linschitz

CHEMISTRY 25a,b. Organic Chemistry

Structure, reactions, preparation and uses of the compounds of carbon. The laboratory will give experience in the important techniques of organic chemical practice and include synthesis of typical organic compounds.

Prerequisite: A satisfactory grade in any one of the following courses: Chemistry 10a,b or equivalent, Chemistry 30a or 30aR.

Three classroom and one 4½-hour laboratory period a week. *9 credits.*

Laboratory fee: \$20.

Messrs. Hendrickson and Hutton

CHEMISTRY 30a. Quantitative Analysis

Theoretical principles of quantitative chemical analysis dealing with gravimetric and volumetric procedures, acidimetry and alkalimetry, ionic equilibria, oxidation-reduction, electrochemical cells, iodimetry and iodometry, solubility products. Laboratory work will consist of a variety of analyses designed to develop the students' laboratory technique.

Prerequisites: Chemistry 10a,b or equivalent, and Mathematics 10 or 11 or equivalent.

Three classroom and six laboratory hours a week. *5 credits.*

Laboratory fee: \$10.

Mr. Kustin

CHEMISTRY 30aR. General and Analytical Chemistry

This course is intended primarily for students who have completed Chemistry 15a.

Prerequisites: Chemistry 15a or equivalent and Mathematics 10 or 11 which may be taken concurrently.

Three classroom and six laboratory hours a week. *5 credits.*

Laboratory fee: \$10.

Messrs. Grunwald and Linschitz

CHEMISTRY 41a,b. Physical Chemistry

An introduction to the theoretical foundations of chemistry dealing with thermodynamics, kinetic theory of gases, real gases, solids, liquids, solutions, electrochemistry and chemical kinetics.

Prerequisites: Satisfactory grades in Chemistry 10a,b, or equivalent, 30a (or consent of instructor), Mathematics 20 or 21 or the equivalent and Physics 10 or 11.

Three classroom hours a week.

Mr. Tuttle

CHEMISTRY 42aR. Physical Chemistry Laboratory

Basic measurements and techniques illustrating and applying physico-chemical principles; theory of errors, properties of gases, liquids and solutions, phase diagrams, electrochemistry, selected instrumental methods.

Prerequisites: Chemistry 30a (or consent of instructor), Chemistry 41a,b which may be taken concurrently.

One lecture, four laboratory hours each week. *3 credits.*

Laboratory fee: \$10.

Mr. Ralph

CHEMISTRY 99. Undergraduate Research

Research assignment, which may include literature survey, independent laboratory work, and presentation of oral and written reports; weekly conferences with adviser.

Students must have completed the German requirements (see page 89) before registering for this course.

Prerequisite: Consent of Chemistry Department.

Hours and credits to be arranged.

Laboratory fee: \$10.

Staff

For Undergraduate and Graduate Students

Admission to any of the following courses in Chemistry requires the consent of the instructor.

CHEMISTRY 110bR. Analytical Chemistry

Principles and techniques involved in modern chemical analysis. Application of modern instrumental methods to the study of chemical and physical processes. Techniques used include polarography, spectroscopy, chromatography.

Prerequisite: Chemistry 41a,b which may be taken concurrently.

Two classroom and six laboratory hours a week. *4 credits.*

Laboratory fee: \$10.

Mr. Steel

CHEMISTRY 121aR. Inorganic Chemistry

Introduction to the principles of chemical binding; valence theory, periodic properties, molecular structures. Application to the chemistry of the lighter elements.

Inorganic synthesis and analysis; synthetic techniques include vacuum line, high temperature, non-aqueous and electrochemical preparations. Instrumental methods of analysis.

Prerequisite: Chemistry 41a,b or consent of instructor.

Three classroom hours a week, *3 credits*; six laboratory hours a week, *2 credits.*

Laboratory fee: \$10.

Mr. Kustin

CHEMISTRY 130a. Introduction to Organic Research

Systematic determination of structures of organic molecules utilizing micro-techniques and instrumental methods as a preparation for research. Some synthetic work in connection with degradations of unknowns will emphasize choice of reactions and conditions.

Prerequisite: Chemistry 25a,b.

Two classroom and two three-hour laboratory periods a week. *4 credits.*

Laboratory fee: \$10.

Mr. Ralph

CHEMISTRY 131a. Advanced Organic Chemistry

Stereochemistry, molecular rearrangements, kinetics and mechanisms of organic reactions.

Prerequisites: Satisfactory grades in Chemistry 25a,b and 41a,b or the equivalent. Chemistry 41a,b may be taken concurrently.

Mr. Cohen

*CHEMISTRY 132b. Synthetic Methods

CHEMISTRY 141a. Advanced Physical Chemistry

A unified introduction to chemical thermodynamics, statistical mechanics and elementary wave mechanics.

Prerequisite: Chemistry 41a,b or equivalent.

Mr. Tuttle

CHEMISTRY 141b. Advanced Physical Chemistry

Continuation of Chemistry 141a.

Prerequisite: Satisfactory grade in Chemistry 141a.

Mr. Jordan

*CHEMISTRY 144a. Chemical Crystallography

*Not to be given in 1965-66.

CHEMISTRY 145b. Chemical Kinetics

Kinetics of homogeneous and heterogeneous chemical change.

Prerequisite: Satisfactory grade in Chemistry 41a,b or the equivalent. *Mr. Steel*

See Graduate School catalog for courses numbered 200 and above.

Classics

Associate Professor RAMSAY MACMULLEN, *Chairman*; Visiting Associate Professor PETER COLACLIDES; DR. J. PETER STEIN.

Requirements for Concentration

A. Three language year courses in Greek and two in Latin, or three in Latin and two in Greek.

B. One year course in Greek and in Roman history.

C. Two additional year courses in Greek and/or Latin or two additional year courses on Greco-Roman or Mediterranean art, archeology, geography, history, philosophy, drama or literature in translation.

D. Junior tutorial (Classics 97c).

E. Additional requirement for candidates for degrees with distinction: Classics 99.

GREEK 1. Introductory Greek

Grammar and readings in Xenophon.

Greek 1 is a full year course and may not be dropped with credit at midyear.
Mr. Stein

GREEK 2. Review and Rapid Reading of Simple Prose

Prerequisite: Greek 1, or appropriate placement score, or permission of instructor. *To be announced*

GREEK 10. Readings in Philosophical and Historical Texts

Mr. Colaclides

GREEK 11. Intermediate Greek

Selected readings from Greek literature.

Prerequisite: Greek 2 or 10, or appropriate placement score, or permission of instructor.
1st semester—*Mr. Colaclides*
2nd semester—*Mr. Mueller*

GREEK 12. Advanced Greek

A number of classical tragedies will be selected with a view to avoid duplicating the students' previous readings.

Prerequisite: Greek 10 or 11, or permission of instructor. *To be announced*

GREEK 13. Composition**GREEK 14. Greek Proseminar****LATIN 1. Introductory Latin**

Grammar and readings in Caesar.

Latin 1 is a full year course and may not be dropped with credit at midyear.
Mr. Stein

*Not to be given in 1965-66.

LATIN 2. Review and Rapid Reading of Simple Prose

Prerequisite: Latin 1, or appropriate placement score, or permission of instructor. *Mr. Stein*

LATIN 10. Intermediate Latin

First semester: Readings in Livy and Tacitus.

Second semester: Readings in Roman comedy.

Prerequisite: Latin 2, or appropriate placement score, or permission of instructor. *Mr. Colaclides*

LATIN 11. Lyric and Elegiac Poetry*LATIN 12. Advanced Latin**

Readings in Lucretius.

Prerequisite: Latin 10 or the permission of instructor. *To be announced*

LATIN 13. Composition**LATIN 14. Latin Proseminar****Primarily for Undergraduates*****CLASSICS 4a. Pre-Classical Greek Art**

See Fine Arts 31a.

***CLASSICS 4b. Classical and Post-Classical Greek Art**

See Fine Arts 31b.

CLASSICS 5. Classical Greek Literature in Translation

An intensive study of the major Greek writers. Readings in epic poetry, the lyric poets, the classical and the main historians. The literature will be considered against a background of ancient thought and art.

See Humanities 5. *To be announced*

CLASSICS 12. Selected Problems in Classical Greek Literature*CLASSICS 97c. Junior Tutorial**

Guided study for juniors concentrating in Classics. *Staff*

CLASSICS 98a,b. Readings in Classics

Staff

CLASSICS 99. Senior Seminar

Guided research for seniors concentrating in Classics. *Staff*

Comparative Literature

Committee: Professor JAMES E. DUFFY (*Student Adviser*); Professors JOSEPH I. CHESKIS, MILTON HINDUS; Associate Professors EDWARD ENGELBERG, DENAH LIDA; Assistant Professors ANDRÉE COLLARD, LUIS E. YGLESIAS, ELÉONORE M. ZIMMERMANN.

*Not to be given in 1965-66.

Requirements for Concentration

A. Comparative Literature 97c plus two semester courses chosen from Comparative Literature 116bR, 145a, 145b.

B. Two semester courses chosen from Comparative Literature 141b, 146bR, 147a, 150b, 155b, 181bR, and the one course not taken under Requirement A.

C. Four semester literature courses in the literature of each of two languages. Courses numbered 10 do not meet this requirement except in Italian and Russian.

D. Additional requirement for candidates for degree with distinction: Comparative Literature 99.

It is strongly recommended that concentrators take a composition course (French, German, or Spanish 106; Italian or Russian 3a) in the foreign language or languages in which they choose to work.

It is strongly recommended that concentrators take Comparative Literature 97c in their junior year.

In all Comparative Literature courses taken under Requirements A and B, concentrators are required to read in the original the works written in the two languages of their concentration.

COMPARATIVE LITERATURE 97c. Junior Tutorial

Reading and research on specific subjects.

Staff

COMPARATIVE LITERATURE 98a and b. Independent Study

Reading and reports under faculty supervision. May be taken only with the permission of the adviser to concentrators and the Chairman of the Department.

Staff

COMPARATIVE LITERATURE 99. Senior Research

Students who are candidates for a degree with honors in Comparative Literature must register for this course and prepare, under faculty direction, an honors thesis.

Staff

*COMPARATIVE LITERATURE 116bR. The Renaissance: Epic and Lyric

COMPARATIVE LITERATURE 141b. The Picaresque Tradition in the Novel

Prerequisite: A reading knowledge of one of the foreign languages involved in the course.

Miss Collard

COMPARATIVE LITERATURE 145a. European Romanticism

Prerequisite: A reading knowledge of one of the foreign languages involved in the course.

Mr. Engelberg

COMPARATIVE LITERATURE 145b. European Romanticism

Prerequisite: A reading knowledge of one of the foreign languages involved in the course.

Mr. Engelberg

*COMPARATIVE LITERATURE 146bR. Stendhal and Tolstoi

See Russian 146bR.

*COMPARATIVE LITERATURE 147a. Symbolism

*Not to be given in 1965-66.

COMPARATIVE LITERATURE 148a. The Bildungsroman

The novel of education from Goethe to Günter Grass, including a study of works by Voltaire, Stendhal, Dickens, Dostoevsky, Balzac, Twain, Lawrence, Mann, Camus, Hemingway.

Prerequisite: A reading knowledge of one of the foreign languages involved in the course. *Mr. Engelberg*

COMPARATIVE LITERATURE 148b. The European Lyric since Valéry

The course will include works by Valéry, St. Jean Perse, René Char, Rilke, Gottfried Benn, Montale, Ungaretti, Lorca, *et al.* *Mr. Yglesias*

COMPARATIVE LITERATURE 150b. Dostoevski, Gide and Mann**COMPARATIVE LITERATURE 155b. Proust and Joyce****COMPARATIVE LITERATURE 158a. Rousseau and Tolstoi**

The influence of Rousseau on the esthetics, religious, and social views of Tolstoi. *Mr. Cheskis*

COMPARATIVE LITERATURE 162. Russian Fiction of the Nineteenth Century *Mr. Rahu***COMPARATIVE LITERATURE 164b. Existentialism and Modern Fiction**

Kierkegaard, Sartre, Camus, and Kafka. *Mr. Swiggart*

COMPARATIVE LITERATURE 165b. The Jewish Image in World Literature**COMPARATIVE LITERATURE 167a. The Literature of the Holocaust****COMPARATIVE LITERATURE 171a. The Modern Drama**

See Theatre Arts 122a. *Mr. Halpern*

COMPARATIVE LITERATURE 181bR. Don Juan*COMPARATIVE LITERATURE 187a. History of Criticism: Plato to Dryden**

Same as English 187a. *Mr. Cunningham*

COMPARATIVE LITERATURE 190b. Literary Theory

An historical and theoretical study of literary criticism and problems of esthetics.

Prerequisite: A reading knowledge of one of the foreign languages involved in the course. *Mr. Engelberg*

COMPARATIVE LITERATURE 191a. Introduction to Linguistics

Mr. Keyser

Computer Science

Associate Professor MAX CHRÉTIEN, *Director of Computer Center.*

Advisory Committee: Professors HOWARD FREEMAN, RICHARD S. PALAIS; Associate Professors PAUL H. BRAINARD, ULRIC NEISSER, ROBERT S. WEISS; Assistant Professors S. JAY KEYSER, THOMAS N. MARGULIS, SANFORD E. WOLF.

*Not to be given in 1965-66.

COMPUTER SCIENCE 17a. Introduction to Numerical Methods and Computer Programming

Numerical solution of algebraic and differential equations, FORTRAN programming and practical exercises on IBM 1620 and 7094 computers.

Prerequisite: Mathematics 10 which can be taken simultaneously, or permission of instructor.

Open to freshmen with permission of instructor

Mr. Chrétien

COMPUTER SCIENCE 27b. Computer Programming and Application

Introduction to computers and computer programming with applications in statistics and scientific computation. General principles of programming will be supplemented by practical utilization of the IBM 1620 and 7094 computers.

Prerequisite: Mathematics 10 or permission of instructor. Knowledge of FORTRAN programming language.

2 credits.

Mr. Tobey

Economics

Associate Professor RICHARD S. WECKSTEIN, *Chairman*; Professor JOSEPH S. BERLINER; Associate Professors ROBERT EVANS, JR., ROMNEY ROBINSON; Assistant Professors STEPHEN S. COHEN, HOWARD M. GITELMAN (*Student Adviser*); ROBERT W. HARTMAN, BARNEY K. SCHWALBERG, MR. LACEY T. SMITH.

Requirements for Concentration

A. All concentrators must complete satisfactorily each of the following:

1. Economics 1a, 1b, 80a, 82b, 83a.

2. One additional semester course numbered below Economics 80.

3. Three additional semester courses numbered above Economics 83. Reading courses, Economics 98a and b, may not be used to fulfill this requirement.

B. Candidates for departmental honors must complete satisfactorily Economics 99 in addition to the above.

Where prerequisites are listed, they must be fulfilled satisfactorily before enrollment in the stipulated course, except in extraordinary circumstances with permission of the Chairman of the Department.

ECONOMICS 1a. Introduction to Economics

A study of the principal economic issues facing advanced industrial societies, with special emphasis on problems of full employment and the relation of fiscal and monetary policies to this goal.

Open to freshmen.

Staff

ECONOMICS 1aR. Introduction to Economics

The same as Economics 1a, but given in the Spring term.

Staff

ECONOMICS 1b. Introduction to Economics

Two main topics are discussed: (a) the internal organization of the economy by means of the price system, and (b) the world economy, including international trade and the problems of economic development of rich and poor countries.

May precede Economics 1a.

Staff

ECONOMICS 1bR. Introduction to Economics

The same as Economics 1b, but given in the Fall term.

Staff

ECONOMICS 2a. Modern Economics—A Survey*ECONOMICS 20a. American Labor History**

An analysis of the organizations and personalities involved in the formation of the American labor movement from the colonial era to the AFL-CIO merger.

Prerequisites: Economics 1a and 1b.

Mr. Gitelman

ECONOMICS 20b. Industrial Relations*ECONOMICS 22aR. American Economic History**

Economic growth of the United States, with attention given to the relationship between agricultural, transportation, and industrial developments, and to changes in commercial organization, the organization of labor and the role of government.

Prerequisites: Economics 1a and 1b.

Mr. Gitelman

ECONOMICS 24a. The Soviet Economy

The Tsarist and Marxian historical background; strategy of economic development; organization of industry and agriculture; planning and efficiency of resource allocation; measurement of national income and its components; current economic reform and prospects for future growth.

Prerequisites: Economics 1a and 1b.

Mr. Berliner

ECONOMICS 30a. Economics of Socialism*ECONOMICS 32b. Comparative Economic Organization**

A critical evaluation of the major kinds of economic organizations now in operation. Included are the U.S. market economy, the French form of centrally planned capitalism, the Soviet centrally directed economy, and the Yugoslavian form of market socialism.

Prerequisites: Economics 1a and 1b.

Mr. Schwalberg

ECONOMICS 34a. Government: Expenditures and Taxation*ECONOMICS 37a. The Political Economy of Cities**

A study of the city as both an economy and a polity. The development of cities, the relationship to community and metropolis are explored. Municipal finance, land use and transportation are considered in particular. Urban renewal and planning techniques are examined.

Prerequisites: Economics 1a and 1b.

Mr. Cohen

ECONOMICS 46b. The World Economy: Trade and Development**ECONOMICS 54bR. Government and Business in the United States****ECONOMICS 58b. Poverty and Social Welfare in the United States**

An examination of the problem of poverty in advanced societies. Topics will include an analysis of the factors leading to poverty as well as an evaluation of

*Not to be given in 1965-66.

social welfare measures designed to eliminate poverty.

Prerequisites: Economics 1a and 1b.

Messrs. Berliner and Hartman

*ECONOMICS 68b. History of Economic Thought

ECONOMICS 75aR. The Economics of Underdeveloped Countries

An examination of the causes and characteristics of economic underdevelopment. Attention will be given to particular countries within the underdeveloped world.

Recommended for Latin American Studies concentrators.

Prerequisites: Economics 1a and 1b.

Mr. Weckstein

ECONOMICS 80a. Price Theory

A study of resource allocation under various forms of market organization; theory of consumer behavior; theory of the firm; prices of factors of production; general equilibrium.

Prerequisites: Economics 1a and 1b.

Mr. Schwalberg

ECONOMICS 82b. National Income Analysis

The meaning of the national income concepts, and their development through business accounting; the factors determining the level of national income and employment; the influence of governmental fiscal and monetary policies.

Prerequisites: Economics 1a and 1b.

Messrs. Hartman and Schwalberg

ECONOMICS 83a. Quantitative Methods in Economics

Introduction to the theory and practices of the use of data in economics. The organization of data, sampling, tests of hypotheses, and measuring of relationships among economic variables will be discussed.

Mr. Schwalberg

ECONOMICS 98a and b. Readings in Economics

Readings and reports under the direction of a faculty supervisor. Available to seniors with permission of the Department.

Staff

ECONOMICS 99. Senior Research

Seniors who are candidates for degrees with distinction in Economics are required to register for this course and, under the direction of a member of the faculty, prepare an honors thesis on a suitable topic.

Staff

ECONOMICS 100b. Workshop in Economics

Cases in selected aspects of metropolitan finance, transportation and land use. Case material will be studied in relation to theories of political power, bureaucracy, pricing, externalities and location.

It is recommended that Economics 37a have been taken.

Prerequisites: Economics 80a and 83a.

Mr. Cohen

ECONOMICS 101b. Political Economy Seminar: European Union

A study of issues on which both economics and politics make related contributions. A major part of the seminar is devoted to the preparation of legislative proposals dealing with current critical issues.

*Not to be given in 1965-66.

This course is the same as Politics 101b. Registration is limited to a small group to be selected by the instructors from the senior class of Economics and Politics concentrators. *Mr. Weckstein and Mr. Macridis*

ECONOMICS 120aR. Labor Economics and Labor Policy

A theoretical and empirical approach to wage determination, the economic impact of unionism, labor markets, and labor mobility, the labor force, and unemployment.

Prerequisite: Economics 80a.

Mr. Evans

***ECONOMICS 130b. Introduction to Mathematical Economics**

ECONOMICS 135b. Industrial Pricing Behavior

An examination of the decision-making process in the present-day business firm, including examination of some dissenting views with respect to the conclusions of marginal price analysis.

Prerequisite: Economics 80a.

Mr. Robinson

***ECONOMICS 140a. Theories of Economic Development**

ECONOMICS 150bR. Social Economics

Studies on the social consequences of economic policy; concept of social welfare in public-interest theory, "welfare economics," voting, other techniques of social choice; welfare effects of economic policies upon various social institutions (educational, political) and social groups (age, race).

Prerequisite: Economics 80a or permission of instructor.

Mr. Berliner

***ECONOMICS 157b. American Industrial Growth**

ECONOMICS 158b. Proseminar in American Industrial Growth

See History 158b for description.

Mr. Ginger

ECONOMICS 160bR. International Economics

International monetary arrangements, foreign exchanges and exchange control, the theory of international trade and price relationships, capital movements and labor migration, customs unions, the theory of international liquidity.

Prerequisites: Economics 80a and 82b.

Mr. Weckstein

ECONOMICS 170a. Monetary and Fiscal Policy

The role of monetary and fiscal policy in achieving economic goals of the United States. Existing institutions and proposed reforms are studied.

Prerequisite: Economics 82b.

Mr. Hartman

***ECONOMICS 190a and 190b. Topics in Advanced Economics**

Education

Committee: Associate Professor EUGENE C. BLACK, *Chairman*; Assistant Professor JACK REITZES (*Secretary and Director*); Associate Professor HAROLD WEISBERG; Assistant Professors DAVID H. FISCHER, BERNARD Z. SOBEL; DEAN KERMIT C. MORRISSEY.

*Not to be given in 1965-66.

This program is intended to supplement the liberal arts curriculum for the student planning to teach in elementary or secondary school. A student cannot select Education as a field of concentration, but the student who completes the Education Program will acquire at least fifteen credits toward a teaching certificate.

The committee admits the qualified student to the program in the second semester of his junior year. Applications should be filed with the director. Each applicant should complete one semester course from each of the following groups (A and B) prior to his senior year:

Group A

Psychology 11a
Psychology 15a
Psychology 30b

Psychology 148aR
Psychology 155b
Sociology 104b

Group B

Philosophy 23b

History 160b

Each senior accepted in the Education Program must enroll in Education 10 and in either Education 1c or 2a.

The director of the Education Program serves as adviser to any undergraduate interested in preparing himself for a career in elementary or secondary school teaching. A student interested in the Education Program should consult the director during the freshman or sophomore year, and apply early in the second semester of the junior year.

EDUCATION 1c. Seminar: Teaching in the Elementary School

Methods and principles. Existing and proposed curricula in reading, mathematics, science, social studies, and other areas examined and discussed with teacher-consultants from several elementary schools.

Meets two hours each week in the fall and one hour each week in the spring. Enrollment limited to seniors approved by the Faculty Committee on Education.

Mr. Reitzes and Staff

EDUCATION 2a. Teaching in the Secondary School

Methods and principles for secondary school subjects.

To be taken concurrently with, or prior to, Education 10. Enrollment limited to seniors approved by the Faculty Committee on Education. *Mr. Reitzes and Staff*

EDUCATION 10. Practice Teaching

Observation and student teaching in elementary or secondary schools under supervision of experienced teachers; regular conferences to discuss and evaluate the teaching experience.

A minimum of 180 hours of practice teaching, to be taken in a single term during the senior year.

Enrollment limited to seniors approved by the Faculty Committee on Education. Students must reserve at least every morning in one term for this course. Fall Term—6 credits; Spring Term—6 credits. *Mr. Reitzes*

The director of the Education Program serves as adviser to all undergraduates interested in preparing themselves for careers in teaching. Those who intend to

pursue the Education Program should confer with the director in their freshman or sophomore year, and make formal application early in the second term of the junior year.

English and American Literature

Professor ROBERT O. PREYER, *Chairman*; Professors A. OWEN BARFIELD, J. V. CUNNINGHAM, VICTOR HARRIS, MILTON HINDUS, GRAHAM HOUGH (*beginning 1966-67*), LOUIS KRONENBERGER, JOHN LAWLOR, HOWARD NEMEROV (*beginning 1966-67*), PHILIP RAHV; Associate Professors BENJAMIN B. HOOVER, JOHN H. SMITH, PETER SWIGGART, MARIE SYRKIN, AILEEN WARD; Assistant Professors BARBARA GELPI, ALLEN GROSSMAN, S. JAY KEYSER, IRA KONIGSBERG, ALAN LEVITAN; MRS. RUTH STONE, DR. JOHN B. WIGHT (*Student Adviser*); MR. PHILIP J. DRISCOLL, DR. KAREN W. KLEIN, MR. MARTIN MUELLER, MR. RICHARD J. ONORATO.

Requirements for Concentration

Required of all Candidates: Ten semester courses. These include a course in method, English 1a or 111b; courses in Chaucer and Shakespeare, English 2a and 3a; five period courses in English and American Literature or their tutorial equivalents, English 4b or 104a; 5a or 105b; 6a or 106b; 7b or 107a; 8b or 108b; a course in either linguistics or criticism, English 121a, 122a, 187a, 192b, and English 100a or b, the comprehensive examination.

The tutorials (English 104b through 108a) are limited in enrollment to fifteen students.

In addition to the courses listed below, students should consult offerings in Humanities, Comparative Literature, and Theatre Arts.

Primarily for Undergraduates

ENGLISH 1a and 1aR. Introduction to the Study of Literature

A course designed to train students in the techniques of literary study.

Restricted to freshmen.

Mr. Onorato and Mrs. Gelpi

ENGLISH 2a. Chaucer

Troilus and Criseida and *The Canterbury Tales*.

Mr. Konigsberg

ENGLISH 3a and 3aR. Shakespeare

Messrs. Smith and Lawlor

ENGLISH 4b. Early English Literature: Beowulf to Marlowe

Mr. Levitan

ENGLISH 5a. English and American Literature: Jonson to Swift

Mr. Smith

ENGLISH 6a. English and American Literature: Johnson to Keats

Mr. Hoover

ENGLISH 7b. English Literature: Victorian Period

Mr. Preyer

ENGLISH 8b. American Literature from 1832 to 1900

Mr. Hindus

*ENGLISH 9b. American Literature from 1900 to 1965

Prerequisite: English 8b.

ENGLISH 55a. The Literature of Modern Ireland

Mr. Driscoll

ENGLISH 61b. The English Lyric

Mr. Cunningham

*ENGLISH 62b. The American Lyric

*ENGLISH 72a. The English Novel

ENGLISH 90a. Independent Study

Mr. Keyser

ENGLISH 90b. Independent Study

Mr. Onorato

ENGLISH 100a or b. Comprehensive Examination

An examination, required of concentrators in English, on the ability to interpret and evaluate literary works, given in December and April. The list of works will be announced at the beginning of each semester.

Mrs. Gelpi and Mr. Hindus

*ENGLISH 103b. Tutorial in Shakespeare

ENGLISH 104a. Tutorial in Renaissance Literature: Lyric and Narrative Poetry

Mr. Levitan

ENGLISH 105b. Tutorial in Seventeenth Century Literature

Milton's poetry and prose.

Mr. Onorato

ENGLISH 106b. Tutorial in Eighteenth Century Literature

Satire in the novel: *Gulliver's Travels* to *Nightmare Abbey*.

Mr. Hoover

ENGLISH 107a. Tutorial in Victorian Poetry

Mrs. Gelpi

ENGLISH 108b. Tutorial in American Poetry

Mr. Cunningham

ENGLISH 111b. Introduction to Literary Method

Not open to freshmen.

Mr. Preyer

ENGLISH 113a. Tutorial in Criticism: Poetic Diction

Mr. Barfield

For Undergraduate and Graduate Students

ENGLISH 121a and b. Old English

An introduction to Old English grammar, with special attention to the rapid attainment of skill in reading. Texts of prose and the shorter poems will be read in the first semester; *Beowulf* in the second semester.

Students may not enter the second semester without having taken the first or its equivalent.

Mrs. Klein

ENGLISH 122a. The Medieval Lyric

The development of lyric poetry in England, France, and Germany in the Middle Ages, with special attention to the Middle English lyric.

Mrs. Klein

*Not to be given in 1965-66.

ENGLISH 122b. Medieval Drama

Also Theatre Arts 122b.

*Mr. Lawlor****ENGLISH 142b. Elizabethan and Jacobean Drama****ENGLISH 145b. English Religious Poetry in the Seventeenth Century***Mr. Grossman***ENGLISH 150b. The Classical Background of English Literature***Mr. Mueller***ENGLISH 155a. Romantic Poetry***Mr. Onorato***ENGLISH 172a. The Nineteenth Century English Novel***Mr. Preyer****ENGLISH 173a. The Twentieth Century English Novel****ENGLISH 180b. Continuity and Change in Modern Literature**

The modern spirit of change, innovation and experiment in literature as expressed in some of the representative works of continental as well as American and English writers, among them: Flaubert, Dostoevski, Zola, Mann, Eliot, Pound, Joyce, Kafka, Lawrence, Brecht.

*Not open to freshmen and sophomores.**Mr. Rahn****ENGLISH 185a. The Literature of Transition: Classical to Romantic****ENGLISH 187a. History of Criticism: Plato to Dryden***See Comparative Literature 187a.**Mr. Cunningham***ENGLISH 188b. History of English Criticism: Romantic and Modern***Mr. Barfield***ENGLISH 191a. Introduction to Linguistics***See Comparative Literature 191a.**Mr. Keyser***ENGLISH 192b. History and Structure of the English Language**

A study of the linguistic structure of modern English and of the historical processes through which it developed.

*Mr. Keyser**See Graduate School catalog for courses numbered 200 and above.***ENGLISH COMPOSITION 1a and 1aR. Introduction to Writing**

Weekly exercises in the various forms of writing.

This course fulfills the General Education requirement in English Composition.

*Mr. Wight and Staff****ENGLISH COMPOSITION 2a. Advanced Writing****ENGLISH COMPOSITION 102a and b. Directed Writing: Poetry***Mrs. Stone*

English and Classics

Committee: DR. JOHN B. WIGHT, Chairman.

Requirements for Concentration

A. Three year-courses in the required English sequence, English 1a to 8a.

B. Three year-courses in Latin above the Latin 1 level or three year-courses in Greek above the Greek 1 level.

*Not to be given in 1965-66.

C. One year-course of independent study (English 90a and b).

It is recommended, though not required, that a student offering the combination of English and Latin also acquire an elementary knowledge of Greek and that a student offering the combination of English and Greek, also acquire an elementary knowledge of Latin. A student's course of study in this field may be supplemented by appropriate courses in history, philosophy, art, and archeology.

No course which is offered in fulfillment of the general language requirement may be counted toward concentration in this field.

European Languages and Comparative Literature

Associate Professor DENAH L. LIDA, *Chairman*; Assistant Professor STEPHEN J. GENDZIER (*Language Coordinator*); MR. CHARLES GRIBBLE (*Language Laboratory Coordinator*).

Comparative Literature

Associate Professor EDWARD ENGELBERG.

French

Associate Professor MURRAY SACHS (*Adviser to French Concentrators*); Professor JOSEPH I. CHESKIS; Assistant Professors WALTER E. ALBERT, STEPHEN J. GENDZIER, WILLIAM H. MATHESON, EVELYN S. SIMHA, GERALD VOLPE, ELEONORE ZIMMERMANN; MISS ROSE ABENDSTERN, MISS MIREILLE ETIENNE, MR. L. DAVIS HAMMOND, MRS. JANINE REISMAN, MR. RALPH TARICA.

German

Associate Professor HARRY ZOHN (*Adviser to German Concentrators*); Assistant Professor ESTHER RAWIDOWICZ; MR. BRUCE J. MIKEL.

Russian

MR. CHARLES GRIBBLE (*Adviser to Russian Concentrators*); MR. ROBERT SZULKIN.

Spanish

Professor JAMES E. DUFFY (*Adviser to Spanish and Comparative Literature Concentrators*); Associate Professor DENAH L. LIDA; Assistant Professors ANDRÉE COLLARD, LUIS YGLESIAS.

For course offerings and requirements for concentration, *see* Comparative Literature, French, German, Italian, Russian, Spanish, and Yiddish.

Fine Arts

Professor CREIGHTON GILBERT, *Chairman*; Professors LEO BRONSTEIN, PETER GRIPPE, WILLIAM C. SEITZ, MITCHELL SIPORIN; Associate Professor JOACHIM GAEHDE; Assistant Professors ROBERT W. BERGER; MR. MICHAEL PHILLIPS.

Requirements for Concentration

The Fine Arts concentrator may elect his concentration in either of two subdivisions: (1) Applied Arts (Studio), or (2) Art History and Criticism.

A. All Fine Arts concentrators will take a total of seven year-courses or the equivalent within the department, to include the following:

2 semesters of early period courses (numbered 30-49; 130-149)

3 semesters of later period courses (numbered 50-79; 122a; 150-179)

1 semester in Oriental art (80-89; 180-189)

Fine Arts 1, 103

B. Studio concentrators will take four additional semesters of studio electives.

C. History concentrators will take four additional semesters of art history electives.

None of the above requirements may be altered except with departmental approval.

FINE ARTS 1. Elements of Design in Art

Theoretical and visual study of the meaning in pictorial form. Studio work in various color and drawing media.

Three studio hours per week.

Fine Arts 1 is a year course and may not be dropped with credit at midyear.

To be announced

FINE ARTS 20a. Introduction to the History of Art 1: Antiquity and the Middle Ages

Enrollment in each section limited to 35. Messrs. Berger, Bronstein and Gaehde

FINE ARTS 20b. Introduction to the History of Art 2: From the Renaissance to the Modern Age

Enrollment in each section limited to 35. Messrs. Berger, Gilbert and Phillips

*FINE ARTS 31a. Pre-Classical Greek Art

*FINE ARTS 31b. Classical and Post-Classical Greek Art

FINE ARTS 41a. Early Christian and Byzantine Art

A study of form and meaning in architecture, sculpture and painting from the beginning of the Christian era to the Fall of Constantinople. *Mr. Gaehde*

FINE ARTS 42b. Medieval Art in Western Europe

Architecture, sculpture and painting from the migrations to the end of the Gothic period. *Mr. Gaehde*

FINE ARTS 51a. Art of the Early Renaissance in Italy

Major painters, sculptors and architects in Rome, Florence and Venice from Giotto to Leonardo da Vinci. *Mr. Gilbert*

*FINE ARTS 54a. Renaissance Art in Northern Europe

FINE ARTS 58b. The High Renaissance in Italy

A study of sixteenth century painting, sculpture and architecture, with special emphasis on Michelangelo and Titian. *Mr. Gilbert*

FINE ARTS 70a. Nineteenth Century French Painting

Emphasis on: David, Delacroix, Ingres, Courbet, Manet, Degas, Monet, Seurat, Cezanne, Van Gogh, Gauguin. *Mr. Phillips*

*Not to be given in 1965-66.

FINE ARTS 71b. Art of the Twentieth Century

Twentieth century painting, sculpture and architecture in Europe and America.
Mr. Phillips

FINE ARTS 81b. The Islamic Art of the Near and Middle East

Originality of the Iranian Islamic formula. Its central role. Its radiation West and East, including Spain and India. Special emphasis is given to Islamic architecture and painting.
Mr. Bronstein

FINE ARTS 85a. The Art of Mesopotamia and Egypt*FINE ARTS 98a and b. Independent Study**

Readings and reports on a special project under the direction of a faculty adviser. Available to seniors with the permission of the department.
Staff

FINE ARTS 99. Senior Research**FINE ARTS 102. Theory and Practice of Painting**

Organization of natural and abstract forms in space. Psychological and emotive potentialities of composition and color. Exploration of the working materials of the painter.

Prerequisite: Fine Arts I or consent of the instructor.

Three studio hours per week.

Studio fee: \$5. per semester.

Mr. Siporin

FINE ARTS 103. Life Drawing

Observation and study of basic shapes in nature and their application to drawing the figure.

Prerequisite: Fine Arts I or consent of the instructor.

Three studio hours per week.

Studio fee: \$5. per semester.

To be announced

FINE ARTS 104. Advanced Life Drawing

Advanced study of drawing with special emphasis on the human figure, its anatomy and structural design. Individual expression is encouraged and the use of drawing in pictorial composition is explored.

Prerequisite: Fine Arts 103 or consent of the instructor.

Studio fee: \$5. per semester.

Mr. Siporin

FINE ARTS 108. Advanced Painting

A workshop course which will stress creative individual work in painting. The study of natural forms, as well as the organization of forms from the imagination will be undertaken. The various media of painting and the employment of the technical means of art towards personal artistic expression in painting will be explored.

Prerequisite: Consent of the instructor.

Studio fee: \$5. per semester.

Mr. Siporin

FINE ARTS 111. Sculpture

Introduction to problems of modeling in clay and wax, coloring and glazing

*Not to be given in 1965-66.

of tiles, slip making and firing. Compositions from life and from the imagination in bas relief and in the round.

Three classroom hours and three hours of informal studio work per week.

Prerequisite: Fine Arts 1 or 103 or consent of the instructor.

Studio fee: \$15. per semester.

Mr. Grippe

FINE ARTS 112. Advanced Sculpture

A workshop course exploring traditional and modern styles and techniques. Stress on design and figure composition.

Prerequisite: Consent of the instructor.

Studio fee: \$15. per semester.

Mr. Grippe

FINE ARTS 115. Workshop in Woodcut, Etching and Engraving

Techniques covered include woodcut, line engraving, dry point, lift ground, aquatint, bitten textures, intaglio and surface printing. Printing in black and white and color.

Prerequisite: Open to art concentrators or with consent of the instructor.

Studio fee: \$12.50 per semester.

Mr. Grippe

FINE ARTS 119b. Advanced Workshop with Visiting Artist

Work in either painting, sculpture, or the graphic arts on the advanced level in a small group.

Enrollment only by application to or invitation by the department.

To be announced

FINE ARTS 120a. Architecture

A discussion of form and function in architectural masterpieces of the past and of the present day. The planning, construction and esthetic quality of modern houses and other buildings in the Boston area will be studied.

Mr. Berger

FINE ARTS 122a. American Painting and Architecture

An historical, philosophical interpretation of American painting and architecture from the beginning to the present.

Mr. Phillips



***FINE ARTS 127a. Introduction to the Theory of Spanish Art**

See Spanish 127a.

***FINE ARTS 130b. The Art of Ancient Rome**

FINE ARTS 160b. Seventeenth Century Masters

Emphasis on Caravaggio, Rubens, Bernini, Velazquez, Rembrandt, Poussin, and Vermeer. *Mr. Berger*

***FINE ARTS 171b. Painting and Sculpture since 1945**

FINE ARTS 180a. Introduction to the Art of India

Relationships with the background of thought and religion. *Mr. Bronstein*

FINE ARTS 181b. Introduction to the Art of Japan

Emphasis on the history of painting, and its background in history. *Mr. Bronstein*

***FINE ARTS 184a. Seminar in Far Eastern Art**

FINE ARTS 190b. Advanced Studies in Medieval Art

A study of selected works or problems by means of seminar discussion. The topic will be announced each year.

Prerequisite: Permission of the instructor required. *Mr. Gaehde*

***FINE ARTS 191a. Advanced Studies in the Renaissance**

***FINE ARTS 192a. Advanced Studies in Modern Art**

FINE ARTS "S". Studio Colloquium

Demonstrations by and discussions with visiting artist.
No credit.

To be announced

French Language and Literature

Requirements for Concentration

A. Required of all Concentrators: French 3a, 97c, 106b, and two year courses chosen from French 116a and b, 117a and b, 127a and b.

B. Five semester courses from offerings above French 10.

C. One year course from the School of Humanities, except logic and composition.

D. A Comprehensive Examination to be taken at the end of the senior year. (Students wishing to prepare for this examination should consult the adviser to concentrators.)

E. Additional requirement for candidates for degrees with distinction: French 99.

French 1 and 2 are full year courses and may not be dropped with credit at midyear.

French 10 may be divided with the permission of the Coordinator or the Chairman.

*Not to be given in 1965-66.

A *Maison Française* has been established on the campus to house a limited number of girls who wish to increase their fluency and to live in a French-speaking environment. Priority for membership in the *Maison Française* will be given to juniors and seniors majoring in French, Romance literature and Comparative Literature; sophomores who are candidates for the Smith-Sweet Briar Programs of *Junior Year Study in France*; and freshmen with a high rating in French in their entrance examinations who plan to concentrate in French. Interested students should apply to the Chairman of the Department of European Languages and Comparative Literature.

FRENCH 1. Introductory French

Staff

FRENCH 2. Intermediate French

Prerequisite: French 1, appropriate placement score, or permission of the instructor.

Staff

FRENCH 3a and 3aR. Intermediate Conversation

Prerequisite: Concentration in French or permission of the instructor.

Mrs. Reisman

FRENCH 5a. Accelerated Second Year French

An *intensive* one-semester course for students whose placement score or performance in French 1 indicates an advanced preparation.

Prerequisite: Permission of the Coordinator or the Chairman.

Staff

FRENCH 10. Readings in French Literature

Prerequisite: French 2 or 5a, appropriate placement score or permission of instructor.

Staff

FRENCH 97c. Tutorial

Prerequisite: Permission of the instructor.

Mr. Sachs

FRENCH 98a and b. Independent Study

Reading and reports under faculty supervision. May be taken only with the permission of the adviser to concentrators and the Chairman of the Department.

Staff

FRENCH 99. Senior Research

Students who are candidates for degrees with honors in French must register for this course and prepare, under faculty direction, an honors thesis.

Staff

FRENCH 100. Introduction to Literary Analysis

This course is especially recommended to qualified freshmen who anticipate a concentration in some area of the School of Humanities.

Prerequisite: An appropriate placement score or permission of the instructor.

Miss Zimmermann and Mr. Tarica

FRENCH 106b. Advanced French Composition

Prerequisite: French 10 or permission of the instructor.

Mr. Tarica

***FRENCH 107bR. French Stylistics**

*Not to be given in 1965-66.

*FRENCH 111a. Phonetics and the Structure of the French Language

*FRENCH 112a. Theory of Language

FRENCH 112b. Theory of Language

Major developments in linguistic theory and the application of linguistic concepts to language learning and to literature.

Prerequisite: French 112a or Comparative Literature 191a or permission of the instructor. *Mrs. Simha*

FRENCH 116a. Medieval French Literature

Prerequisite: French 10 or permission of the instructor. *Mr. Volpe*

FRENCH 116b. French Renaissance Literature

Prerequisite: French 10 or permission of the instructor. *Mr. Volpe*

FRENCH 117a. Seventeenth Century Satire and Irony

Prerequisite: French 10 or permission of the instructor. *Mr. Gendzier*

FRENCH 117b. French Classical Drama

Prerequisite: French 10 or permission of the instructor. *Miss Zimmermann*

FRENCH 127a. The Eighteenth Century: Prose Fiction

Prerequisite: French 10 or permission of the instructor. *Mrs. Simha*

FRENCH 127b. The Eighteenth Century: The Age of Enlightenment

Prerequisite: French 10 or permission of the instructor. *Mr. Gendzier*

FRENCH 138a. The French Novel in the First Half of the Nineteenth Century

Prerequisite: French 10 or permission of the instructor. *Mr. Hammond*

*Not to be given in 1965-66.



FRENCH 138b. The French Novel in the Second Half of the Nineteenth Century*Prerequisite:* French 10 or permission of the instructor.*Mr. Sachs***FRENCH 139a. Romantic and Parnassian Poetry***Prerequisite:* French 10 or permission of the instructor.*Mr. Albert****FRENCH 139bR. French Poetry: Baudelaire to Valéry*****FRENCH 140aR. The Theatre of the Eighteenth and Nineteenth Centuries*****FRENCH 140b. Twentieth Century Theatre****FRENCH 149aR. Early Twentieth Century French Fiction***Prerequisite:* French 10 or permission of the instructor.*Mr. Matheson***FRENCH 149bR. Contemporary French Fiction***Prerequisite:* French 10 or permission of the instructor.*Mr. Tarica****FRENCH 150b. Contemporary French Poetry**

General Science

Committee: Associate Professor MORRIS SOODAK, *Chairman and Student Adviser*; Professors STEPHAN BERKO, EDGAR ZWILLING; Associate Professors HAROLD I. LEVINE, ROBERT STEVENSON.

The general science program is designed for students desiring a diversified program in the sciences; for example, for students planning to teach science in secondary schools, to enter medicine or public health and their allied fields, or to undertake other programs requiring a general scientific background. Students who intend to do graduate work in a specific scientific field are advised to fulfill the undergraduate requirements for concentration in that field.

Requirements for Concentration

A. Required of all Candidates: Biology 10; Mathematics 10, 11, or 12; Physics 10 or 11; Chemistry 10a,b or 15a.

The candidate must have a minimum grade of C in each of the four courses taken in this group.

B. Elective Courses: With the approval of the faculty advisers for the program, each concentrator in the general science program must elect, in addition, the equivalent of five year courses from the offerings of the School of Science. These five courses must be selected from at least two and not more than three fields in the School of Science, so that advanced courses will be required of all students in this program. It is strongly recommended that a course in History of Science be elected in addition to the above five courses.

C. Requirements for candidates for degrees with distinction: A student may petition the General Science Committee to devise an honors program which is in accordance with the special background of the individual.

*Not to be given in 1965-66.

German Language and Literature

Requirements for Concentration

A. Required of all Concentrators: German 3a, 3b, 100a, 106a, 110a or 110b, 120a, 140a, 160b or 180aR.

B. One year course chosen from the German course offerings above German 10.

C. One year course in a related area chosen with the consent of the adviser.

D. A Comprehensive Examination to be taken at the end of the senior year. (Students wishing to prepare for this examination should consult the adviser to concentrators.)

E. Additional Requirement for candidates for degrees with distinction: German 99.

German 1 and 2 are full year courses and may not be dropped with credit at midyear.

German 10 may be divided with the permission of the Coordinator or the Chairman.

GERMAN 1. Introductory German

Staff

GERMAN 2. Intermediate German

Prerequisite: German 1, appropriate placement score, or permission of instructor. Staff

*GERMAN 3a. Intermediate Composition and Conversation

GERMAN 3b. Advanced Composition and Conversation

Prerequisite: German 1 or permission of the instructor. Mrs. Rawidowicz

GERMAN 5a and 5aR. Accelerated Second Year German

An intensive one-semester course for students whose placement score or performance in German 1 indicates an advanced preparation.

Prerequisite: Permission of the Coordinator or the Chairman. Staff

GERMAN 10. Readings in German Literature

Prerequisite: German 2 or 5a, appropriate placement score, or permission of the instructor. Staff

GERMAN 98a and b. Independent Study

Reading and reports under faculty supervision. May be taken only with the permission of the adviser to concentrators and the Chairman of the Department.

Staff

GERMAN 99. Senior Research

Students who are candidates for a degree with honors in German must register for this course and prepare, under faculty direction, an honors thesis.

Staff

GERMAN 100a. Historical Survey of German Literature

Prerequisite: Permission of the instructor.

Mr. Mikel

GERMAN 106a. Advanced Exercises in German Composition and Literary Style

Prerequisite: Permission of the instructor.

Mr. Zohn

*Not to be given in 1965-66.

GERMAN 110a. Introduction to the Life and Works of Goethe

Prerequisite: German 10 or permission of the instructor. *Miss Zimmermann*

GERMAN 110b. Goethe's "Faust" and Late Works

Prerequisite: German 10 or permission of the instructor. *Miss Zimmermann*

GERMAN 112a. Theory of Language*GERMAN 112b. Theory of Language**

Major developments in linguistic theory and the application of linguistic concepts to language learning and to literature.

Prerequisite: German 112a or Comparative Literature 191a or permission of the instructor. *Mrs. Simha*

GERMAN 120a. Enlightenment, Storm and Stress, Idealism; Lessing and Schiller*GERMAN 130b. German Romanticism**

Prerequisite: German 10 or permission of the instructor. *Mr. Mikel*

GERMAN 140a. German Literature in the Nineteenth Century

Prerequisite: German 10 or permission of the instructor. *Mr. Zohn*

GERMAN 150b. The German Novelle from Goethe to Thomas Mann**GERMAN 160b. German Drama and Lyric Poetry from Naturalism to the Present****GERMAN 180aR. Twentieth Century Prose**

Prerequisite: German 10 or permission of the instructor. *Mr. Zohn*

Greek

See Classics.

Hebrew

Requirements for Concentration

For requirements for concentration in Hebrew Literature, see *Near Eastern and Judaic Studies*.

HEBREW 1. Introductory Hebrew

Fundamentals of grammar, acquisition of vocabulary, brief compositions and reading of simple texts.

Open to those students who have not previously had instruction in Hebrew.

Mr. Neiman

HEBREW 2. Intermediate Hebrew

The structural method will be used, aiming at promoting the student's acquaintance with the necessary tools for an active use of the language.

Prerequisite: Hebrew 1 or its equivalent; consent of instructor required.

Mr. Levine

*Not to be given in 1965-66.

HEBREW H3a. The Hebrew Language (Hiatt Institute in Israel)

Basic grammar; reading of simple texts; composition and conversation with emphasis on the spoken language. *4 credits.* *Mr. Rosen and Associates*

HEBREW 10. Introduction to Post-Biblical Hebrew Literature

Excerpts from selected works will be read and analyzed from both the linguistic and the literary points of view.

Prerequisite: Hebrew 2 or its equivalent.

Mr. Neiman

***HEBREW 80. Advanced Hebrew Composition and Conversation**

Also see courses under NEAR EASTERN AND JUDAIC STUDIES.

History

Professor MORTON KELLER, *Chairman*; President A. L. SACHAR; Professors DAVID S. BERKOWITZ, RAYMOND S. GINGER, LEONARD W. LEVY, MARVIN MEYERS, JOSHUA PRAWER; Associate Professors EUGENE C. BLACK, HEINZ M. LUBASZ (*Student Adviser*), RAMSAY MACMULLEN, MILTON I. VANGER; Assistant Professors JEROLD S. AUERBACH, KENNETH BARKIN, DAVID H. FISCHER, THOMAS J. HEGARTY; DR. NORMAN F. CANTOR.

Requirements for Concentration

Each student will prepare his plan of study with his faculty adviser and must have that adviser's approval for his courses.

A. Required of all Candidates:

1. One year course or the equivalent in American History.
2. History 1a or one semester course in European history before 1700; History 1b or one semester course after 1700.
3. History 97c or one proseminar in history.
4. Five semester courses or the equivalent offered by the Department of History.

B. Additional requirement for candidates for degrees with distinction: History 99.

Proseminars are open to qualified juniors and seniors affording the advanced student an opportunity to examine in some detail complex historical problems within relatively limited areas and periods.

In exceptional cases, History 98b may, with the permission of the Department, be used in the junior year as preparation for the honors program (History 99) in the senior year.

Politics 170a and b, NEJS 126a and b, NEJS 142a, NEJS 145a, MS 100a, and Economics 22a may be applied for history concentration credit.

For graduate courses in the History of American Civilization or the History of Ideas programs open to undergraduates, consult the catalog of the Graduate School.

Primarily for Undergraduates

HISTORY 1a. The Development of Western Thought and Institutions

The course will center on the key factors and forces which have shaped the

*Not to be given in 1965-66.

development of Western society from the ancient to the modern world. Major emphasis will be on social, economic, and political ideas embodied in institutional developments.

Messrs. MacMullen and Prawer

HISTORY 1b. The Development of Western Thought and Institutions

Continuation of History 1a.

Mr. Lubasz

HISTORY 11a. History of Greece

The political, social, economic and cultural history of Greece from the Bronze Age into the Hellenistic period.

Mr. MacMullen

HISTORY 12b. History of Rome

The political, social, economic and cultural history of Rome, through the Monarchy, Republic, and Empire, to about 400 A.D.

Messrs. MacMullen and Prawer

*HISTORY 30bR. Expansion of Europe, 1415-1779

HISTORY 36a. The Twentieth Century

World War I and the end of an era; the depression; the Western World in shock; the rise of totalitarianism; the emergence of Soviet Russia.

Not open to freshmen.

Mr. Sachar

HISTORY 36b. The Twentieth Century

Continuation of History 36a. Diplomacy of the 1930's; World War II; the revolt of suppressed peoples; the Cold War; the Atomic Age.

Not open to freshmen.

Mr. Sachar

HISTORY 51a. History of the United States

An introduction to the history of the American people from the settlement of the English colonies in the seventeenth century to the Civil War, with emphasis on social and political development.

Open to freshmen.

Mr. Ginger

HISTORY 51b. History of the United States

An introduction to the history of the American people from the Civil War to the present, with emphasis on the problems of industrial society and foreign relations.

Open to freshmen.

Mr. Auerbach

*HISTORY 71a. Latin American History to 1890

*HISTORY 71b. Latin American History, 1890 to the Present

HISTORY 91b. Senior Seminar

Seminar on the United States from 1890-1941.

Prerequisite: History 154b or permission of instructor.

Each student is expected to do independent research on a single topic, bringing to bear on it the methods and insights from the several disciplines. Instruction is on a collaborative basis, in small classes meeting weekly.

See American Civilization 100b.

Mr. Auerbach

*Not to be given in 1965-66.

HISTORY 97c. Junior Tutorial

Required reading in works of the great historians, reports and discussions on assigned topics. *Mr. Fischer and Staff*

HISTORY 98a and b. Readings in History

A supervised reading around a specific theme, discussions and preparation of research paper or equivalent.

Open upon invitation of the Department. *Staff*

HISTORY 99. Senior Research

Seniors who are candidates for degrees with honors in history are required to register for this course and, under the direction of a member of the faculty, prepare an honors thesis on a suitable topic. *Staff*

For Undergraduate and Graduate Students

HISTORY 106a. The Changing Greek City-State

(Proseminar)

Reading of sources, especially Thucydides, with modern commentary, covering the period 431 to 323 B.C. *Mr. MacMullen*

HISTORY 107b. Studies in the Decline of the Roman Empire

(Proseminar)

An intensive study of government, society, and culture of the fourth century. *Mr. MacMullen*

HISTORY 121. History of Social and Political Ideas in Antiquity and the Middle Ages**HISTORY 123a. Europe in the Early Middle Ages****HISTORY 123b. Europe in the Later Middle Ages**

Mr. Cantor

HISTORY 124a. Feudalism: Medieval Society and Political System

The growth and evolution of the European society in the Middle Ages, economic patterns, social stratification and political institutions, the decline of the feudal system and transition to representative government. *Mr. Prawer*

HISTORY 125a. History of Medieval Political Theory**HISTORY 128. The Renaissance and Reformation in Europe****HISTORY 129b. The Renaissance and Reformation in Sixteenth Century England**

The development of institutions and outlooks in sixteenth century England under the impact of Renaissance and Reformation currents. *Mr. Berkowitz*

HISTORY 133. Intellectual History of Europe: The Romantics to the Existentialists

European thought in its social and political context. Lectures and reading of selected texts. *Mr. Lubasz*

*Not to be given in 1965-66.

HISTORY 134a. History of Europe, 1789-1848

(formerly 34a)

This course surveys European history from the French Revolution to the mid-nineteenth century. It stresses the changes which followed the Revolution and their different national forms.

Mr. Barkin

HISTORY 134b. History of Europe, 1848-1914

(formerly 34b)

This course surveys European history from 1848 to the First World War and emphasizes the quest for political, economic, and social stability in the major European states.

Mr. Barkin

HISTORY 135b. The Growth of Modern Industrial Society

(Proseminar)

The industrial revolution in Europe with emphasis upon Great Britain, Germany, and France. Problems in technological and entrepreneurial history, the social implications of economic change and the intellectual and institutional impact of these developments.

Mr. Black

HISTORY 143a. History of Russia to 1825

Pre-Slavic developments, the establishment of the Kievan state, invasion and internal decline, appanage Russia and the rise of regional centers, Muscovite Russia and the growth of the autocracy, Imperial Russia and the impact of Western Europe.

Mr. Hegarty

HISTORY 143b. History of Russia, 1825 to the Present

The Russian Rechtsstaat at its height, the modernization of Russia, Russian industrialization under the Romanovs, the roots of the Russian revolution, the early Bolshevik state, NEP and the rise of Stalin, collectivization and industrialization, Soviet foreign policy and international Communism, the Khrushchev era and prospects for the future.

Mr. Hegarty

HISTORY 144a. Modern Britain, 1760-1867*HISTORY 144b. Modern Britain, 1867 to the Present**

Social, economic, cultural, and political history of Britain from the Second Reform Act to the evolution of the welfare state.

Mr. Black

HISTORY 145a. History of Germany, 1848-1945

The economic, political, and diplomatic history of Germany, including Austria-Hungary, from the revolutions of 1848 to the collapse of National Socialism in 1945.

Mr. Barkin

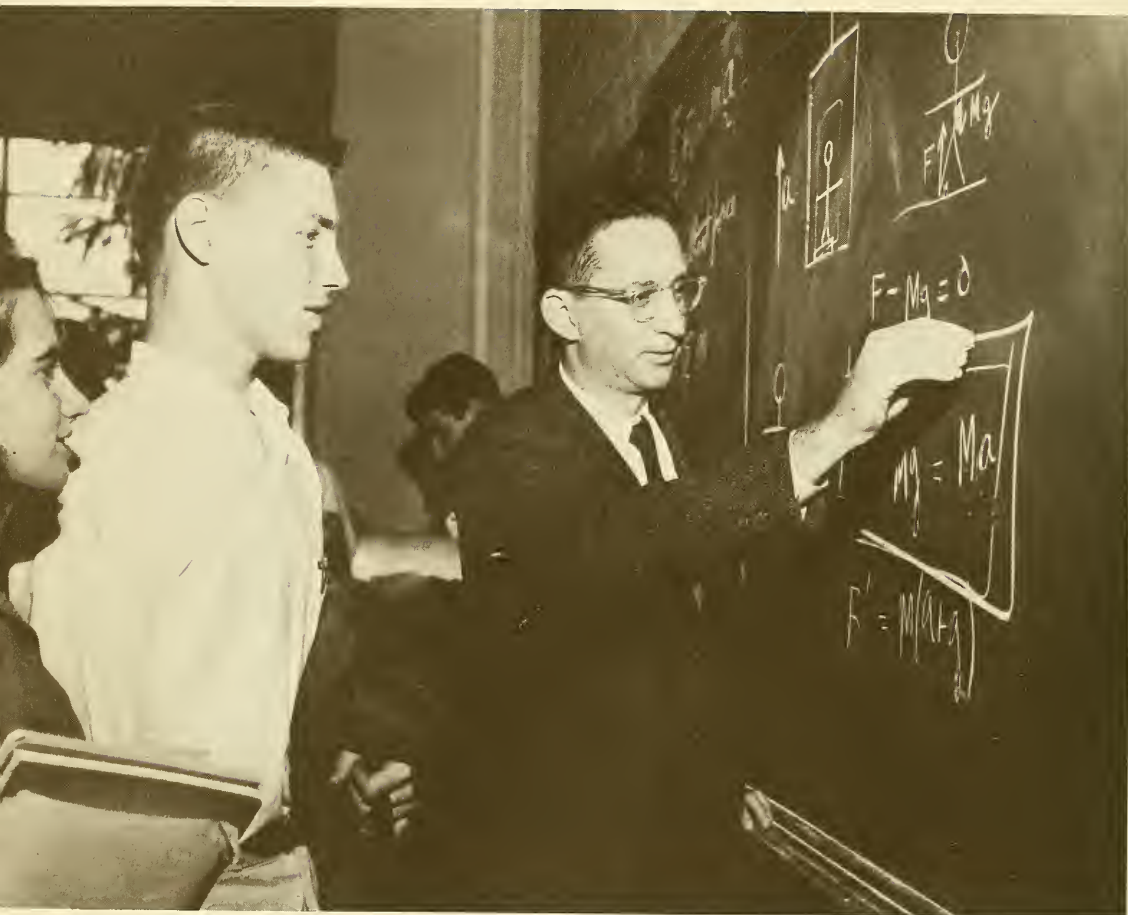
HISTORY 145b. The Weimar Republic

A seminar dealing with economic, political, and intellectual developments between World War I and the assumption of office by Hitler.

Prerequisite: History 145a or consent of the instructor.

Mr. Barkin

*Not to be given in 1965-66.



HISTORY 147b. Social and Intellectual History of Russia

(Proseminar)

The impact of Western European thought on Russian intellectuals including Radischchev, Chaadaev, Belinsky, Herzen, Pisarev, Mikhailovsky, and Plekhanov.

Mr. Hegarty

*HISTORY 148b. Russian and Soviet Imperialism

*HISTORY 150b. The Age of the Democratic Revolution, 1760-1830

HISTORY 151a. American Colonial and Revolutionary History

An investigation of three selected topics in early American history; the Puritans in seventeenth century New England; political, economic, social, religious, and cultural development in eighteenth century America; the American Revolution.

Mr. Fischer

*Not to be given in 1965-66.

HISTORY 151b. The New American Republic

A study of five problems in American history, 1788-1815; the development of nationalism and sectionalism; the growth of political democracy; foreign affairs; economic expansion; and the transition from the Enlightenment to Romanticism.

Mr. Fischer

HISTORY 152a. American Political Thought: The Early Republic*HISTORY 152b. Jacksonian Democracy**

(Proseminar)

An examination of the interpretations of democratic society and politics in the Jacksonian era, from Tocqueville to the present.

Mr. Meyers

HISTORY 153b. Civil War and Reconstruction

An intensive examination of the origins, conduct and consequence of the American Civil War, from 1848 to 1877. Economic and cultural sectionalism, social reform, political parties, and the place of the Negro in American Society.

Mr. Fischer

HISTORY 154a. The Rise of Modern America*HISTORY 154b. Modern America**

Significant historical developments in the United States since 1914: business and economic, political, constitutional, diplomatic, social, and intellectual.

Mr. Ginger

HISTORY 155a. Civil Liberties in America

Examination of the historical development of individual liberties with emphases on the role of government and the relationship between civil liberties and political and social movements.

See Politics 56bR.

Mr. Auerbach

HISTORY 156a. History of American Constitutional Law and Theory**HISTORY 156b. History of American Constitutional Law and Theory*****HISTORY 157b. American Industrial Growth, I****HISTORY 158b. American Industrial Growth, II**

(Proseminar)

Intensive research by each student, making heavy use of primary sources, on a selected topic bearing on the economic development of the U.S. Training in research methods and writing will be stressed.

Prerequisite: History 157b or permission of instructor.

Mr. Ginger

HISTORY 160b. History of American Education**HISTORY 161a,b. American Diplomatic History****HISTORY 162a. The American Political Tradition: I**

An examination of eighteenth century American thought, emphasizing the development of conceptions of a distinctive republican community. Discussion of selected texts.

Mr. Meyers

*Not to be given in 1965-66.

HISTORY 162b. The American Political Tradition: II

An examination of American thought in the first half of the nineteenth century, emphasizing the response to new social and political problems. Discussion of selected texts.

Mr. Meyers

HISTORY 163a. American Intellectual History

The history of ideas in America from the seventeenth century to 1865. The course traces the evolution of major traditions through the writings of significant figures and in relationship to significant historical events.

Mr. Ginger

HISTORY 163bR. American Intellectual History in the Twentieth Century

The focus will be on certain themes in the cultural and intellectual history of the United States since 1900.

Mr. Lerner

HISTORY 164. History of American Political Institutions

An examination of American political institutions that stresses their relationship to the development of the culture at large.

Prerequisite: History 51a,b or its equivalent.

Consent of instructor required to take one semester only.

Mr. Keller

HISTORY 176a. Relations between United States and Latin America**HISTORY 176b. Approaches to Latin American History*****HISTORY 180a. History of East Asia*****HISTORY 180b. East Asia and Southeast Asia in Modern Times****HISTORY 181a. The Growth of Chinese Civilization**

The birth of Chinese civilization, the Golden Age of Chinese thought, the first Chinese Empire, the "Barbarian" challenge, the regeneration of the empire, the Mongol Empire, Chinese "Culturism," and China at its height under the Ch'ing Dynasty.

Mr. Hegarty

HISTORY 181b. The Western Impact on China

Topics to be studied are early European contact with China. Invasion and rebellion in the Empire, the struggles for progress and order, and China under Communism.

Mr. Hegarty

HISTORY 190b. History of Historical Literature and Historical Method

Lectures, readings, and reports dealing with the development of the practice of historical investigation, the problem of historical method, and the contemporary modes of historical expression.

Mr. Berkowitz

Humanities

HUMANITIES 1. Classics of the Western Tradition through the Renaissance

The major texts of the Western literary tradition with discussion of ideas and values, and training in the various methods of literary interpretation and analysis. The readings will include Homer, Greek tragedy, Plato, the Old and New Testaments, Virgil, Dante, Chaucer, Cervantes and Shakespeare.

Staff

*Not to be given in 1965-66.

HUMANITIES 2. Classics of the Western Tradition from the Renaissance to the Present

The major cultural movements in Western civilization since the Renaissance, with emphasis on the literary masterpieces. Among the authors studied are Shakespeare, Milton, Moliere, Swift, Voltaire, Rousseau, Goethe, Stendhal, Flaubert, Dostoevski, Ibsen, and Joyce.

Staff

HUMANITIES 3. Classics of English Literature

A study of the nature of the English literary tradition and its principal masterpieces.

Mrs. Gelpi

HUMANITIES 4. Classics of American Literature

A study of major literary works by American authors with emphasis on traditional themes and techniques.

Mr. Swiggart

HUMANITIES 5. Classical Greek Literature in Translation

Readings in epic poetry, the lyric poets, the classical drama, and the main historians. The literature will be considered against a background of ancient thought and art.

See Classics 5.

To be announced

HUMANITIES 6. Literature of the Bible

An account of the character, authorship, text, translation of the Bible; reading and analysis of selected portions in English translation.

Primarily for sophomores and juniors. Open to freshmen upon consultation with Mr. Sarna.

See NEJS 13a,b.

Messrs. Neiman and Sarna

HUMANITIES 7. Literature of the Romance Tradition**HUMANITIES 10. Selected Problems in Classical Greek Literature****HUMANITIES 12. Nature and Value**

First semester: The cosmological view of man's place in nature from the Greeks to the nineteenth century.

Mr. Diamandopoulos

Second semester: Some major problems of value and ethics in the Western philosophic tradition; *e.g.*, ethical relativism, freedom of the will, capital punishment.

Mr. Aiken

Same as Philosophy 12.

Italian Language and Literature**ITALIAN 1. Introductory Italian**

Italian 1 is a full year course and may not be dropped with credit at midyear.

Mr. Hammond

ITALIAN 3aR. Conversation and Composition

Prerequisite: Italian 1 or permission of the instructor.

Mr. Volpe

ITALIAN 5a. Accelerated Second Year Italian

An intensive one-semester course for students whose placement score or performance in Italian 1 indicates an advanced preparation.

Prerequisite: Permission of the Coordinator or the Chairman.

Mr. Volpe

*Not to be given in 1965-66.

ITALIAN 10aR and bR. One Semester: Readings in Italian Literature;

One Semester: Dante

Prerequisite: Italian 5a, appropriate placement score, or permission of the instructor. *Mr. Volpe and Mr. Hammond*

ITALIAN 98a and b. Independent Study

Reading and reports under faculty supervision. May be taken only with the permission of the adviser to concentrators and the Chairman of the Department. *Staff*

Latin

See Classics.

Latin American Studies

Assistant Professor DAVID KAPLAN, *Chairman*; Professor JOSEPH S. BERLINER; Associate Professors DENAH L. LIDA (*Student Adviser for Spanish*), RICHARD S. WECKSTEIN; Assistant Professors GEORGE L. COWGILL, DONALD HINDLEY (*Student Adviser for Politics*), BENSON SALER, LUIS E. YGLESIAS.

Requirements for Concentration

A. Latin American Studies 97c; Anthropology 143b; History 71a and 71b; Spanish 106b; Politics 166a and b.

B. At least one year course from: Anthropology 11a; Economics 75a; History 176a and 176b; Spanish 160aR or 160bR. Economics 75a is required for concentrators with specialization in Anthropology, History, Politics.

C. At least two year courses in one discipline: Anthropology, History, Spanish, Politics.

D. Senior Honors: Candidates for degrees with distinction must be approved by the Committee and complete Latin American Studies 99.

LATIN AMERICAN STUDIES 97c. Seminar in Latin American Studies

An interdisciplinary seminar which will bring to bear upon a given problem in Latin American Studies the techniques, methods, and theories of a number of disciplines.

Open to juniors and seniors. To be given in alternate years.

Staff

LATIN AMERICAN STUDIES 98a,b. Independent Study

Readings and reports under faculty supervision. May be taken only with the permission of the Chairman. *Staff*

LATIN AMERICAN STUDIES 99. Senior Research

Students who are candidates for degrees with distinction must register for this course and prepare, under faculty direction, an honors thesis. *Staff*

*ANTHROPOLOGY 11a. Anthropology and the Problems of Developing Areas

*ANTHROPOLOGY 126b. New World Archeology

ANTHROPOLOGY 127b. Origins of Early Civilizations

Mr. Cowgill

*Not to be given in 1965-66.

- *ANTHROPOLOGY 128b. Civilizations of Middle America
- *ANTHROPOLOGY 129a. Civilizations of South America
- ANTHROPOLOGY 143a. Modern Cultures of Middle America *Mr. Saler*
- ECONOMICS 75aR. The Economics of Underdeveloped Countries *Mr. Weckstein*
- *HISTORY 71a. Latin American History to 1890
- *HISTORY 71b. Latin American History, 1890 to Present
- *HISTORY 176a. Relations between the United States and Latin America
- *HISTORY 176b. Approaches to Latin American History
- POLITICS 166a. The Politics of Northern Latin America *Mr. Hindley*
- POLITICS 166b. The Politics of Southern Latin America *Mr. Hindley*
- *SPANISH 106b. Studies in Advanced Spanish Conversation and Composition
- *SPANISH 160aR. Major Trends in Modern Latin American Literature
- *SPANISH 160bR. Latin American Literature and Revolution

Mathematics

Professor JOSEPH J. KOHN, *Chairman*; Professors MAURICE AUSLANDER, DAVID BUCHSBAUM, EDGAR H. BROWN, JR., T. MATSUSAKA, RICHARD S. PALAIS (*Student Adviser*); Associate Professors EARL E. LAZERSON, HAROLD LEVINE, Hugo Rossi, Robert Seeley; Assistant Professors PAUL H. MONSKY, THOMAS O. SHERMAN, ALPHONSE T. VASQUEZ; DR. MICHAEL FREEMAN, DR. DAVID PRILL, DR. WEISHU SHIH, DR. MICHAEL SPIVAK.

Requirements for Concentration

To be accepted for concentration in Mathematics a student must have his program for his junior and senior years approved by the Mathematics Department by the end of his sophomore year. No student with a grade of less than C in Mathematics 21 or 22 may concentrate in Mathematics.

The following courses are required for concentration in Mathematics: Mathematics 11 and 21, or Mathematics 12 and 22; Mathematics 30; Mathematics 35 or 40; Mathematics 33a and 33b and two one-semester electives. In addition, a concentrator must take one year of physics and one additional year course in the School of Science, the entire program to be approved by the Department.

Two semester courses in the 100 series of Mathematics are required for a degree with distinction.

Information for Freshmen

Students who expect to take a course in Mathematics are advised to do so in their first year.

*Not to be given in 1965-66.

A normal program for a freshman intending to concentrate in Mathematics should include mathematics and physics; either the Humanities or Social Science General Education requirement may be postponed to the sophomore year.

The Department will recommend a particular mathematics course for each entering student; the recommendation is based upon an estimate of the student's ability and preparation.

Mathematics 10, 11 and 12 will have an optional fourth class hour each week devoted to the mechanical aspects of the subject. Students are strongly advised to attend.

Primarily for Undergraduates

MATHEMATICS 1. Elements of Mathematics

Selected topics for students who do not plan to major in the sciences. The purpose of the course is to introduce the student to some of the pleasures and hardships encountered in mathematics.

Mr. Levine

MATHEMATICS 10. Analytic Geometry and Calculus I

Plane analytic geometry, functions, rate of change, elementary notions of integration.

To be announced

MATHEMATICS 11. The Calculus I

Analytic geometry, functions, limits, differentiation and integration.

Mr. Freeman

MATHEMATICS 12. Introduction to Analysis I

A rigorous foundation of the concepts of the calculus and analytic geometry.

Mr. Spivak

MATHEMATICS 20. Analytic Geometry and Calculus II

Continuation of Mathematics 10.

Prerequisite: Mathematics 10 or 11.

Mr. Sherman

MATHEMATICS 21. The Calculus II

Continuation of Mathematics 11.

Prerequisite: Mathematics 11. Students who wish to take this course and who have not taken Mathematics 11 or 12 must pass an examination which will be given at the beginning of the Fall term.

Mr. Prill



MATHEMATICS 22. Introduction to Analysis II

Continuation of Mathematics 12.

Prerequisite: Mathematics 12.*Mr. Seeley***MATHEMATICS 30. Linear Algebra**

Basic concepts in modern algebra; i.e., groups, rings, fields, vector spaces, linear transformations and matrices with special emphasis on linear algebra.

Prerequisite: Mathematics 10 or 20 or the consent of the instructor.*Mr. Vasquez****MATHEMATICS 31a. Differential Geometry****MATHEMATICS 32b. Projective Geometry**

Selected topics in geometry.

Prerequisite: Mathematics 21.*Mr. Matsusaka***MATHEMATICS 33a and b. Selected Topics in Algebra**

For 1965-1966 the topics will be ring theory and homological algebra.

Prerequisite: Mathematics 30.*Mr. Lazerson****MATHEMATICS 34b. Topology****MATHEMATICS 35. Analysis III**

Fourier series, differential forms (line and surface integrals), ordinary differential equations, boundary value problems, calculus of variation.

Prerequisite: Mathematics 21 or 22.*Mr. Palais****MATHEMATICS 36a. Probability****MATHEMATICS 40. Analysis**

Real numbers, metric spaces, Weierstrasse approximation theorem, fundamental existence theorems, implicit function theorem, complex variables, and Fourier theory.

Prerequisite: Mathematics 30.*Mr. Monsky***MATHEMATICS 99. Senior Research***Staff***For Undergraduate and Graduate Students**

All undergraduates who plan to take a graduate course in mathematics must arrange for an interview during registration week and must obtain written departmental approval at that time.

MATHEMATICS 101a and b. Algebra I

Groups, rings, fields, Galois theory, representations and modules.

*Mr. Auslander***MATHEMATICS 111a and b. Analysis I**

Metric spaces, Frechet differentiability, fundamental existence theorems, complex variables and Lebesgue integration.

*Mr. Seeley***MATHEMATICS 121a and b. Point Set Topology**

Set theory, topological spaces, function spaces and covering spaces.

*Mr. Vasquez**See Graduate School catalog for courses numbered 200 and above.*

*Not to be given in 1965-66.



—World Wide Photos

Mediterranean Studies

Professor CYRUS H. GORDON, *Chairman*; Visiting Professor P. DIKAIOS; Associate Professor DWIGHT W. YOUNG; Assistant Professor HARRY A. HOFFNER (*Student Adviser*); DR. ANDRAS P. HAMORI.

MS 100a. History of the Mediterranean from 3000-300 B.C.

The lectures will follow the sequence of topics in C. H. Gordon's *The Ancient Near East* (1965), with constant reference to the published fascicles of the new edition of *Cambridge Ancient History*.
Mr. Gordon

MS 110. Archeology of the East Mediterranean

A survey of methods, discoveries and interpretations.

Mr. Dikaïos

MS 120. Biblical Books of the Heroic Age

Selections from the Pentateuch will be read with constant reference to the Heroic Age of Greece.

Prerequisite: A basic knowledge of Hebrew.

Mr. Hamori

MS 130. Elementary Akkadian

A study of Ungnad's Grammar and readings in the Annals of the Sargonid Kings.

Mr. Hoffner

MS 138. Elementary Ugaritic

Grammar and reading of epic and mythical texts. C. H. Gordon's *Ugaritic Textbook*, 1965, will be used.

Prerequisite: A knowledge of Biblical Hebrew.

Mr. Hamori

MS 140. Elementary Middle Egyptian

Gardiner's *Egyptian Grammar* supplemented with reading simple narratives such as *The Shipwrecked Sailor*.

Mr. Young

*MS 150. Homeric Epic

*Not to be given in 1965-66.

Music

Professor HAROLD SHAPERO, *Chairman*; Professors ARTHUR BERGER, ALEXEI HAIIEFF, SEYMOUR SHIFRIN (*beginning 1966-67*); Associate Professors PAUL H. BRAINARD, ROBERT L. KOFF, CALDWELL TITCOMB (*Student Adviser*); Assistant Professor MARTIN BOYKAN; Miss MADELINE FOLEY, Mr. EUGENE LEHNER, Mr. ALVIN LUCIER, Mr. JOEL SPIEGELMAN.

The program of concentration aims to provide an awareness of the systematic basis of music and its history, skill in the use of theoretical and compositional tools, and a close acquaintance with representative musical literature.

Before admission to concentration, candidates will normally pass Music 61 during their freshman year, with a satisfactory grade, and must undergo an examination to test keyboard competence, sight reading at the piano, and aural perception. Instruction under the Basic Piano program is offered during the sophomore and junior years for those who are deficient at the keyboard. The required proficiency must normally be demonstrated by the end of the junior year. No fee is charged for this instruction and no credit is granted.

During at least one of their three years as concentrators, students must sing in the Chorus. During the other two years, they must participate regularly in either the Chorus or the Ensemble. (Consult Music C and Music E, below, for the conditions under which credit is granted toward the A.B. degree for this activity.)

Requirements for Concentration

A. Required of all Candidates: Music 61, 97c, 102, 103, 162, 163, 165aR.

All concentrators in Music are also expected to participate regularly in the Chorus or Ensemble Workshop, and in the non-credit Music Colloquium. Not more than a total of 6 credits in Music C and E will be counted toward the A.B. degree.

B. Elective Courses: Select from the music courses (including Music C and E but excluding Music 1 and 5) a sufficient number to fill out the requirement of seven year courses. With the permission of the Music faculty, any other year course in Creative Arts may be substituted.

C. All concentrators must pass a four-hour departmental Comprehensive Examination near the end of their senior year.

D. Additional Requirement for candidates for degrees with distinction: To be eligible for honors in music at graduation candidates must demonstrate superior ability through their over-all record, and a capacity for independent thought beyond the limits of their course program.

Primarily for Undergraduates

MUSIC 1. Introduction to Music

A general introduction to the materials and forms of music, and a study of musical literature from ancient times to the present.

Two lectures and one section meeting weekly, with training in analytical listening, based on selected listening assignments.

A year course, not divisible.

Open to non-concentrators. It is assumed that the student has no previous knowledge of music.

Mr. Levy

MUSIC 5a. Fundamentals of Music

Elementary theory for the general student with little or no musical background; notation; scales; melody construction; elementary concepts of theory.

Open to non-concentrators.

Mr. Lucier

MUSIC 5b. Fundamentals of Music*MUSIC 33b. Renaissance and Baroque Keyboard Music**

A survey of the literature for harpsichord and clavichord, including a detailed study of the historical evolution of those instruments. Emphasis will be placed on the keyboard works of J. S. Bach.

Prerequisite: Music 1 or permission of the instructor.

Mr. Spiegelman

MUSIC 34a. The Literature of Chamber Music: Baroque and Classical

Prerequisite: Music 1 or permission of the instructor. *Given in alternate years.*

Mr. Koff

MUSIC 35b. The Literature of Chamber Music: Romantic and Modern*MUSIC 37b. The Symphony**

A survey of the symphonic literature from the works of Haydn and Mozart through the twentieth century. Examples will be chosen from the works of Beethoven, Schubert, Mendelssohn, Schumann, Brahms, Tchaikovsky, Mahler and others.

Prerequisite: Any course in music or permission of the instructor. *Mr. Brainard*

MUSIC 38b. The Opera*MUSIC 42a. Bach and Handel**

A study of the two chief Baroque composers, their background, and their contemporaries.

Two lectures and one section meeting weekly.

Prerequisite: Any course in music or permission of the instructor. *Mr. Brainard*

MUSIC 45a. Beethoven**MUSIC 47b. Wagner and Verdi*****MUSIC 49b. Contemporary Music**

**Not to be given in 1965-66.*



MUSIC 61. Theory I

Elementary harmony and counterpoint. The tonal system; scales, intervals, triads, seventh chords. Strict counterpoint in five species.

Before admission to the course, students must pass a preliminary ear test and will be expected to demonstrate minimal ability to read music.

Three class meetings, and a two-hour laboratory session (keyboard harmony, harmonic and contrapuntal analysis).

Students intending to concentrate in Music should pass this course with a satisfactory grade in the freshman year unless they have an equivalent preparation. In no case may a student take the course later than the sophomore year.

Mr. Spiegelman

MUSIC 97c. Tutorial in Music History and Literature

Guided reading and research in the history and literature of music.

Required of senior concentrators in Music and open without credit to graduate students.

Mr. Boykan

MUSIC 98a,b. Readings in Music History and Theory

Open to qualified undergraduates.

Staff

MUSIC 99c. Senior Research

Independent study under faculty supervision. A student whose grade point average in music is 3.0 or above may petition at the end of his junior year for permission to enter this course.

Staff

MUSIC 102. Historical Analysis of Music to 1750

Studies in the development of musical idioms and forms, and of the relation of music to society. Detailed analysis of representative works, collateral reading, papers on assigned topics.

Prerequisite: Music 61 and an intermediate theory course. To be taken in the junior or senior year.

Offered in alternate years.

Mr. Titcomb

MUSIC 103. Historical Analysis of Music from 1750 to the Present*MUSIC 104a. Twentieth Century Music**

A survey of the techniques and tendencies in music from *Pierrot Lunaire* and *Le Sacre du Printemps* to the serial and aleatoric scores of the younger generation that has emerged in America and Europe since World War II.

Prerequisite: Music 162 or permission of the instructor.

Mr. Berger

MUSIC 134c. Studies in the Analysis and Performance of Chamber Music

A discussion of advanced problems in performance and interpretation. Written work will include papers on selected topics.

Two hours a week, with the Ensemble as a required laboratory session for which no additional credit is given.

Prerequisite: Advanced instrumental proficiency and permission of the instructor.

Mr. Koff

MUSIC 162. Theory II

Intermediate harmony and counterpoint. Secondary sevenths, ninths, altered chords. Tonal counterpoint.

*Not to be given in 1965-66.

Laboratory two hours per week: keyboard harmony, harmonic and contrapuntal analysis.

Mr. Boykan

MUSIC 163. Theory III

Advanced harmony and counterpoint. Chromatic harmony. Modal counterpoint. Introduction to twentieth century materials.

Laboratory two hours per week: keyboard harmony, harmonic and contrapuntal analysis.

Mr. Shapero

MUSIC B. Basic Piano

Instruction for concentrators deficient at the keyboard.

No fee. No credit.

To be announced

MUSIC C. Chorus

The Brandeis Choral Union consists of the Brandeis Chorus, open to all qualified students, faculty and staff; and the Brandeis Chamber Chorus, a smaller group of more advanced singers devoted to performance of contemporary music and works especially prepared for the Collegium Musicum.

Two credits per annum. No credit is given for one semester's participation, nor is credit given for two separate semesters in different years. Maximum credit is six semester hours. This course may not be counted in computing the student's total work load. An excessive number of unexcused absences will disqualify students from receiving credit. Chorus may be taken as an extra-curricular activity without credit.

Required of all concentrators for at least one year.

Three hours each week.

Mr. Lucier

MUSIC E. Ensemble and Chamber Orchestra

Two credits per annum. Open to qualified instrumentalists interested in chamber music performance. Although this is an independent activity it also serves as a laboratory for Music 134c. Maximum credit, six semester hours. No credit is given for anything less than one continuous year's activity. Members of this group will join with the Chorus from time to time in the performance of larger scale works.

Requirements for admission: An audition before the supervisor of performing activities and his staff.

Mr. Koff and Staff

MUSIC M. Advanced Instrumental and Vocal Instruction

For Music concentrators only.

Private study with teachers approved by the department. Limited grants in aid, when available, will be allocated on a competitive basis to concentrators who, in an audition before a faculty panel, exhibit unusual talent in performance, and who demonstrate financial need.

No credit.

For Undergraduates and Graduates

MUSIC 165aR. Elementary Orchestration

The instruments of the orchestra: their construction, ranges, and playing techniques, with a consideration of their use by major composers; the methods of writing effectively for present-day instruments, individually and in combination; the mechanics of reading and writing a score.

Written exercises, analysis of scores, study of recorded performances, and live demonstrations.

Prerequisite: Music 61. Music 162 or 163 is also recommended. *Mr. Lucier*

MUSIC 166a. Seminar in Advanced Orchestration

Prerequisite: Music 165aR or equivalent. *Mr. Haieff*

*MUSIC 167. Composition in Traditional Forms

*MUSIC 171b. History and Practice of Music Criticism

MUSIC 180b. Ethnomusicology

Prerequisite: Music 162 or equivalent. *Mr. Titcomb*

MUSIC COLLOQUIUM

Discussions of special topics led by the faculty and occasional guests. Some of the sessions will include performances of new works. Required of graduate students and concentrators in music.

No credit. *Staff*

See Graduate School catalog for courses numbered 200 and above.

Near Eastern and Judaic Studies

Professor NAHUM N. GLATZER, *Chairman*; Professor ALEXANDER ALTMANN; Associate Professors BENJAMIN HALPERN, DAVID NEIMAN (*Student Adviser*), N. M. SARNA; Assistant Professors BARUCH LEVINE, ARYEH L. MOTZKIN; DR. EUGÈNE J. FLEISCHMANN, DR. NORMAN K. GOTTWALD, MR. AVIGDOR LEVY, MR. LEONARD ZION; MR. SHELDON BRUNSWICK.

Requirements for Concentration

Each student will prepare his plan of study with his faculty adviser. The student must take five year courses or the equivalent beyond the level of Hebrew 10.

A. Required of all Candidates:

1. Hebrew 1, 2, 10 or the equivalent.
2. Two semester courses in Biblical Studies (NEJS 110b, 112a, 112b, 115b, 116b, 118a, 122a).
3. One semester course in Jewish history; ancient, medieval, or modern (NEJS 117a, 126a, 126b, 139b, 149b, 160a, 166a, 166b, 167a).
4. One semester course in Jewish philosophy, mysticism, or ethics, classical or modern (NEJS 61b, 121a, 135a, 135b, 137a).
5. One semester course in modern Hebrew literature; prose or poetry (NEJS 138a, 138b, 139a, 139b).

B. Elective Courses: Select two year (or four semester) courses in the NEJS program to fill out the requirement of five courses. Concentrators who take Arabic may be exempt from Hebrew 10.

C. Additional requirement for candidates for degrees with distinction: NEJS 99.

D. The Brandeis Junior Semester (Fall) in Israel, to be instituted in 1966-67, will carry fifteen credits.

*Not to be given in 1965-66.

Primarily for Undergraduates

NEJS 13a. Literature of the Bible

An account of its character, authorship, text, translation; reading and analysis of selected portions in English translation.

Concentrators in Near Eastern and Judaic Studies will have to fulfill additional assignments within the scope of the course.

Open to freshmen.

See Humanities 6.

Mr. Neiman

NEJS 13b. Literature of the Bible

Continuation of NEJS 13a; the Prophets and the Writings will be read. Either term may be taken independent of the other.

Open to freshmen.

Mr. Neiman

NEJS H20a. Modern Jewish History (Hiatt Institute)

A survey course, beginning with the Enlightenment in Western Europe, emphasizing the issues of Jewish emancipation and the creation of the State of Israel.

Mr. Mevorach

NEJS 21. Introductory Yiddish

(Formerly Yiddish 1)

Mr. Brunswick

NEJS 24. Readings in Yiddish Masterpieces

(Formerly Yiddish 10)

Reading and interpretation of selected stories (in the original) by Sholom Aleichem, J. L. Peretz, Mendele, Bashevis Singer, and others. The relationship between modern Yiddish and modern Hebrew literature will be discussed.

Mr. Brunswick

NEJS 61b. Classical Judaism: Concepts and Institutions

A survey of the mainstream of Jewish tradition as manifested in Halakah, Haggadah, and liturgy.

Open to freshmen.

Mr. Altmann

NEJS 98a and b. Independent Study

Staff

NEJS 99. Senior Research

Staff

For Undergraduate and Graduate Students

NEJS 101. Basic Arabic

An introduction to literary Arabic (classical and modern). Grammar. Reading of graded texts. Drills in pronunciation.

Open to students who have not previously had instruction in Arabic.

Mr. Motzkin

NEJS 102. Intermediate Arabic

Advanced grammatical study coupled with selected readings from representative classical and modern texts.

Prerequisite: NEJS 101 or its equivalent. Consent of instructor required prior to enrollment.

Mr. Motzkin

NEJS 104a. Aramaic Dialectology

Texts in Biblical, Elephantine, Galilean, and Jewish Babylonian Aramaic will be studied, introducing the student into the Aramaic culture of Antiquity. No previous knowledge of Aramaic is required.

Prerequisite: Competence in Biblical Hebrew.

Mr. Levine

NEJS 105a. Syriac*NEJS 106. Elementary Ugaritic**

Grammar and reading of epic and mythical texts. C. H. Gordon's *Ugaritic Textbook*, 1965, will be used.

Prerequisite: A knowledge of Biblical Hebrew.

Mr. Hamori

This course the same as MS 138.

NEJS 109a. Biblical Archeology*NEJS 111a. Biblical Apocrypha**

The non-canonical books of Judaism examined in their historical setting. Consideration of their importance to the Dead Sea Sect and early Christianity.

Mr. Gottwald

NEJS 111b. History of the Biblical Text

An account of the growth of the Biblical text and the ancient versions of the Bible.

Mr. Sarna

NEJS 112a. Biblical Hebrew: Language**NEJS 112b. Biblical Hebrew: Readings of Texts****NEJS 115b. The Five Megillot**

The texts will be studied in the original, applying philological and exegetical methods of critical analysis.

Prerequisite: Competence in Biblical Hebrew.

Mr. Levine

NEJS 116b. The Book of Job and the Problem of Evil

A reading of the Book of Job (in English translation) and a discussion of the role of the book in the literature and thought of the western world; the problem of evil in Judaism and Christianity.

Mr. Glatzer

***NEJS 117a. The Dead Sea Sect**

*Not to be given in 1965-66.



NEJS 118a. The Priestly Writings of the Pentateuch

The literary and historical traditions of the priestly writings in Exodus, Leviticus and Numbers will be examined with attention to relevant archeological finds and extra-Biblical sources from the ancient Near East. *Mr. Levine*

NEJS 119a. The Prophecies of Ezekiel

A reading of the Book of Ezekiel. The nature of Israelite prophetic experience. Readings in other Biblical books relevant to Ezekiel. *Mr. Sarna*

NEJS 119b. The Minor Prophets

A reading of Nahum, Habakkuk, and Zephaniah and an examination of the concepts underlying their prophecies. *Mr. Sarna*

NEJS 120b. Readings in Talmudic Literature

Selections from the Tractate Gittin studied in the original with emphasis on the history of Rabbinic legal institutions. *Mr. Levine*

NEJS 121a. Introduction to Jewish Mysticism**NEJS 121b. Selected Texts from Genesis Rabba*****NEJS 122a. Classical Bible Commentaries****NEJS 126a. History of the Jews in Antiquity and the Middle Ages**

The organization and function of the Jewish community; intellectual developments and changes in religious doctrine; mysticism; Messianic movements; the Jewish community in European economic life.

Open to freshmen.

Mr. Glatzer

NEJS 126b. History of the Jews in Modern Times

The emancipation of the Jews in Western Europe; the Haskalah movement. The great migrations to the West. Renaissance of Hebrew culture; anti-Semitism; Zionism. Problems of contemporary Jewish life in the United States.

Open to freshmen.

Mr. Halpern

NEJS 135a. Maimonides' Guide to the Perplexed*NEJS 135b. Medieval Jewish Philosophy**

A survey of the various phases of Jewish philosophy from the tenth century until the Renaissance. *Mr. Altmann*

NEJS 137a. Spinoza

See Philosophy 137a for description.

Mr. Fleischmann

NEJS 138a. Modern Hebrew Poetry**NEJS 138b. Modern Hebrew Prose**

*Not to be given in 1965-66.



NEJS 139a. Ahad Haam and His Time

Reading and discussion of essays of Ahad Haam, Berdichevsky, Bialik, Brenner, A. D. Gordon, and Klatzkin. A Seminar. Reading knowledge of Hebrew required.

Mr. Halpern

*NEJS 142a. History of Islam

NEJS 143a. Islamic Institutions

Basic trends of the religious, political and social developments in classical Islam. Qur'an and tradition. Scholastic theology. Mysticism. The legal systems. State, cities, religious brotherhoods, guilds. Islam and the modern world.

Mr. Motzkin

NEJS 146b. Nationalism in the Near East

A comparative historical analysis of the theory and practice of nationalism in the Ottoman Empire and its successor states from 1800 to 1920. The Balkan, North African, Turkish, Egyptian and Arab movements compared with European models.

Mr. Halpern

*Not to be given in 1965-66.

NEJS 151b. Introduction to Islamic Philosophy

The rise of Greek philosophy among the Arabs. Farabi, Avicenna, Ghazzali, Averroes. Selections in translation will be read and discussed. *Mr. Motzkin*

NEJS 160a. American Jewish Institutional History

Social history of American Jewry from colonial times to the Second World War. Emphasis on the development of communal institutions. *Mr. Halpern*

NEJS 166a. Modern Jewish Intellectual History to 1870**NEJS 166b. Modern Jewish Intellectual History since 1870****NEJS 167a. Historical Theories in Modern Jewish Thought**

The emergence of modern Jewish historiography and its relationship to Jewish thought. The works of Krochmal, Zunz, Geiger, Jost, Graetz, Hermann Cohen, and Franz Rosenzweig will be discussed. *Mr. Fleischmann*

See Graduate School catalog for courses numbered 200 and above.

Philosophy

Associate Professor FREDERIC T. SOMMERS, *Chairman*; Professors HENRY D. AIKEN, NELSON GOODMAN, STEPHEN E. TOULMIN, JOHN VAN HEIJENOORT; Associate Professors PETER DIAMANDOPOULOS, HAROLD WEISBERG; Assistant Professors DANIEL C. BENNETT (*Student Adviser*), GERASIMOS X. SANTAS.

Requirements for Concentration

A. Required of all Candidates: Philosophy 11a, 11b, 15a, 17b, 143a or 143b; 97c and two semester courses chosen from those numbered 100 and above, with the exception that neither Philosophy 143a nor Philosophy 143b may satisfy this latter requirement, and that one of those semester courses must be a systematic-analytic course, *e.g.*, metaphysics, theory of knowledge, philosophy of science, philosophy of history, etc.

B. Additional Requirement for candidates for degrees with distinction: Philosophy 99.

For courses in Jewish Philosophy see NEJS.

PHILOSOPHY 1. Introduction to Philosophy

An introductory course designed to provide an understanding of the basic problems of philosophy. Persistent questions regarding truth, mind, knowledge, value, perception and existence will be explored. The importance of philosophy in various phases of cultural life will also be examined.

Open to all students.

Staff

PHILOSOPHY 11a. History of Ancient Philosophy

A critical review and discussion of selected texts from the pre-Socratics, Plato, and Aristotle.

Open to all students.

Mr. Santas

PHILOSOPHY 11b. History of Modern Philosophy

A critical review and discussion of selected texts from Descartes, Locke, Berkeley, Hume, Leibniz and Kant.

*Not to be given in 1965-66.

Prerequisite: Philosophy 11a.

(Students must take both 11a and 11b to satisfy the second year Humanities requirement.) *Mr. Bennett*

PHILOSOPHY 12. Nature and Value

See Humanities 12 for course description.

Open to all students. This course satisfies the Humanities 2 requirement.

First Semester: Mr. Diamandopoulos

Second Semester: Mr. Aiken

PHILOSOPHY 13a. Philosophy of Art

An examination of several leading theories of art, beauty and esthetic judgment and a review of recurring problems such as the form of a work of art, communication in art and meaning in esthetic judgment. *Mr. Aiken*

PHILOSOPHY 15a. Introduction to Logic

An introduction to modern logic. Informal exposition of truth-functional logic, deducibility, validity, implication in truth-functional logic. Axiomatization of truth-functional logic. Informal examination of the rudiments of quantification theory and of syllogism. *Mr. van Heijenoort*

*PHILOSOPHY 17b. Ethics

PHILOSOPHY 23b. Philosophy of Education

Significant tendencies in educational thought. An analysis of classical and contemporary philosophical models of the educational process as related to problems of knowledge, value, human nature, and social theory. Reading and discussion of current social and educational criticism. *Mr. Reitzes*

*PHILOSOPHY 52b. Philosophical Analysis and Religion

PHILOSOPHY 97c. Junior Tutorial

Readings and discussions in a selected area with emphasis upon the preparation and presentation of short papers at seminar sessions.

Required of all concentrators. (Optional for those registered in Philosophy 99.) *Staff*

PHILOSOPHY 98c. Senior Seminar

Readings, reports, and discussions on assigned topics.

Required of all concentrators.

Staff

PHILOSOPHY 99. Senior Research

Preparation of honors work under the supervision of the department.

Prerequisite: Permission of the Department.

Staff

For Undergraduate and Graduate Students

(For undergraduates—Open only to juniors and seniors who have a minimum of one year of Philosophy or by special permission of the instructor.)

Each year a number of advanced courses, usually conducted on the seminar level, will be offered. To avoid a proliferation of listings, only those courses

*Not to be given in 1965-66.

offered in a given academic year are described below. A number of current offerings are crosslisted with the History of Ideas offerings.

PHILOSOPHY 104a. Pre-Socratic Philosophy

An intensive study of the fragments of the Pre-Socratics. A study of the transition from myth to philosophy. *Mr. Diamandopoulos*

PHILOSOPHY 105a. Plato

An introduction to Plato's thought through an intensive reading of several major dialogues. Among the topics discussed will be the Socratic method, Socratic and Platonic ethics, Plato's conception of the soul, knowledge, and existence. *Mr. Santas*

PHILOSOPHY 105b. Aristotle

Lectures on Aristotle's views on knowledge, being, the cosmos, the soul, and human life. Extensive reading from *Organon*, *Metaphysics*, *Physics*, *De Anima*, *Ethics*, and *Politics* will be required. *Messrs. Diamandopoulos and Sommers*

PHILOSOPHY 115b. Intermediate Logic

(formerly 15b)

Informal and axiomatic development of quantification theory. Notions of consequence, theorem, proof. Semantics of quantification, semantical completeness of the theory. Naive set theory, the nature of formal systems.

Prerequisite: Philosophy 15a or permission of instructor. *Mr. van Heijenoort*

*PHILOSOPHY 117b. Ethical Theory

PHILOSOPHY 118b. Philosophy and the Idea of Nature

The roots of philosophical patterns in natural sciences: with particular reference to the seventeenth and eighteenth centuries. *Mr. Toulmin*

PHILOSOPHY 119a. Theory of Knowledge

Such questions as the nature of truth, the reliability of sense perception, and the problem of *a priori* knowledge will be discussed. *Mr. Bennett*

PHILOSOPHY 121a. Foundations of Mathematics

Formal systems. Godel's theorems and consequences. Consistency proofs of arithmetic. Introduction to the theory of recursive functions. Hilbert's program and intuitionism. *Mr. van Heijenoort*

*PHILOSOPHY 131a. Theory of Symbols

PHILOSOPHY 133b. Contemporary Philosophy

A review of recent philosophical thought. *Mr. van Heijenoort*

PHILOSOPHY 137a. Spinoza

A presentation of the major trends in Spinoza's thought, his ethics, politics, and criticism of religion.

Same as NEJS 137a. *Mr. Fleischmann*

*PHILOSOPHY 143a. Continental Rationalism

PHILOSOPHY 143b. British Empiricism

Mr. Weisberg

*Not to be given in 1965-66.

PHILOSOPHY 144b. Medieval Philosophy

A survey of the development of philosophy from the Patristic Age to High Scholasticism. *Mr. Altmann*

PHILOSOPHY 147a. American Philosophy*PHILOSOPHY 151b. Social and Political Philosophy**

Mr. Bennett

PHILOSOPHY 158b. Metaphysics

An examination of ontological categories, their structure and formation.

Mr. Sommers

PHILOSOPHY 167b. Kant*Physics**

Professor STEPHAN BERKO, *Chairman*; Professors STANLEY DESER, DAVID L. FALKOFF, EUGENE P. GROSS, OSKAR KLEIN, EDGAR LIPWORTH, RAYMOND A. LYTTLETON (*Astrophysics Institute*), SILVAN S. SCHWEBER; Associate Professors MAX CHRÉTIEN, JACK S. GOLDSTEIN (*Director, Astrophysics Institute and Graduate Adviser*), MARCUS T. GRISARU, MINORU NISHIDA (*Astrophysics Institute*), HOWARD J. SCHNITZER; Assistant Professors H. DANIEL COHEN (*beginning 1966-67*), STEVE P. HEIMS, PETER HELLER, CHRISTOPH HOHENEMSER, DANIEL J. KLEITMAN, ROBERT V. LANGE, MOSLEY A. MEER, HUGH N. PENDLETON, III (*Undergraduate Adviser*), MARCEL SCHNEEBERGER, SANFORD E. WOLF; DRs. ASHER ADLER, IRA H. GILBERT.

Requirements for Concentration

A. The minimum requirement for concentration in Physics is 11 semester courses in physics and 2 semester courses in mathematics. Of the 11 semester courses in physics, at least 3 must be semester courses in laboratory work and of the 11 semester courses, 2 must be from among the following: Physics 30a,b, 36b, 39a,b, 40a,b, 49a,b, 50a,b. (Mathematics 1 does not fulfill the concentration requirement.)

B. Students contemplating graduate work in Physics are strongly advised to take the following sequence: Physics 11, 19c, 20a,b, 29a,b, 30a,b, 39a,b, 40a,b; Mathematics 10 or 11 or 12, 20 or 21 or 22, 35.

C. Other students desiring to concentrate in Physics can satisfy the concentration requirements with the following set of courses: Physics 10, 19c, 25a,b, 29a,b, 30a,b, and 39a,b, or 40a,b, and 49a,b; Mathematics 10 or 11 or 12.

D. Students who have attained a grade of 3, 4, or 5 on the Advanced Placement Examination may obtain credit for Physics 10.

E. Additional requirement for candidates for degrees with distinction: Physics 99 or two graduate semester courses (with honor grades).

PHYSICAL SCIENCE 1.

A survey of physics based on the fundamental theories of natural phenomena which have evolved from 1600 to the present. The course is designed to impart a modern view of the structure of the physical world, particularly the submicroscopic world.

Messrs. Pendleton and Gross

*Not to be given in 1965-66.

PHYSICS 10. Elementary Physics

The phenomena and concepts of physics and their mathematical description.

The course requires proficiency in elementary mathematics including trigonometry or Mathematics 10 which may be taken concurrently. Physics 19c is optional for Physics 10 students. However, a physics course *with* laboratory is a prerequisite for medical, dental schools, and students intending to pursue such a career should register for Physics 19c.

Mr. Falkoff

PHYSICS 11. Basic Physics I

The course covers the basic laws of classical physics and their application to macroscopic and microscopic systems; Newtonian with relativistic mechanics; thermodynamics and statistical mechanics and elementary electromagnetism presented from a modern point of view.

Co-requisite: Mathematics 10, 11, 12 or equivalent.

The course is recommended for all eligible students who plan to concentrate in science. Physics concentrators should take it in their freshman year. Students should check their departmental requirement with respect to the laboratory course, Physics 19c.

1st semester: Mr. Schweber

Three lectures and one recitation per week.

2nd semester: Mr. Goldstein

PHYSICS 19c. Introductory Laboratory

Laboratory course to supplement Physics 10 and 11.

A student should consult his departmental adviser to ascertain whether this course is required in his study program.

Three laboratory hours per week. *3 credits.*

Laboratory fee: \$10.

Messrs. Meer, Wolf and Schneeberger

PHYSICS 20a,b. Basic Physics II

A continuation of Physics 11. The emphasis will be on the description and mathematical analysis of wave phenomena. Detailed treatment of electromagnetism, optics, sound, atomic physics and elements of wave mechanics.

Two lectures and two recitations per week.

Prerequisite: Physics 11 or Physics 10 with permission of instructor. *Mr. Heller*

PHYSICS 21b. Introduction to Astronomy

Methods of observation. The physical properties of the stars. Variable stars. The galaxy and extra-galactic nebulae.

Prerequisite: Physical Science 1 or Physics 10 or 11.

Mr. Goldstein

PHYSICS 25a. Intermediate Physics

Selected topics in mechanics, electromagnetism, heat, optics, and the mathematical techniques encountered in the solution of physical problems in these areas.

Prerequisite: Mathematics 10, 11, 12 or equivalent. Credit will not be given for Physics 20a,b and Physics 25a.

Mr. Chrétien

PHYSICS 25b. Introduction to Astrophysics

Semester course on stellar structure and evolution; physics of stellar atmospheres; structure of galaxies; cosmology.

Prerequisite: Physics 10 or permission of instructor.

Mr. Goldstein

PHYSICS 29a,b. Intermediate Laboratory

Laboratory course in electromagnetic phenomena. Alternating current circuits, electronics, semi-conductors, optics.

Six laboratory hours per week.

Mr. Adler

PHYSICS 30a,b. Atomic and Nuclear Physics

A seminar course dealing with the basic experiments, concepts, and mathematical analysis of atomic physics, spectroscopy, and nuclear physics. Includes an introduction to quantum mechanics.

Prerequisite: Physics 20 or 25.

Mr. Lipworth

PHYSICS 36b. Modern Optics

A laboratory course to introduce students to the principles, instruments, and ideas of modern optics (diffraction phenomena, phase and intensity interferometry, coherence properties of light-lasers).

Mr. Lipworth

PHYSICS 39a,b. Modern Physics Laboratory

A laboratory course involving the performance of representative experiments in atomic, molecular, and nuclear physics—some involving independent research by the student. The course will undertake a detailed analysis of other fundamental experiments not performed. Designed to be taken concurrently with Physics 30.

Prerequisite: Physics 29.

Mr. Hohenemser

PHYSICS 40a,b. Properties of Matter I

A seminar course in the phenomenology and microscopic description of the bulk properties of matter stressing the development of a working knowledge of thermodynamics, kinetic theory, statistical mechanics, and wave mechanics. Applications will be to the various states of matter.

Prerequisite: Physics 20 or 25a.

Mr. Gross

PHYSICS 49a,b. Properties of Matter II

A seminar course designed to be taken concurrently with Physics 40. Selections will be in the physics of metals, semiconductors, insulators; chemical bonding; and low temperature physics. Experiments in the field of solid state physics will be carried out.

Mr. Heller

PHYSICS 50a,b. Theoretical Physics*PHYSICS 97a,b. Tutorial in Physics**

Staff

PHYSICS 98a,b. Reading in Physics

Open to exceptional students who wish to study an area of physics not covered in the standard curriculum.

Staff

PHYSICS 99. Senior Research

Research assignments and preparation of a report under the direction of an instructor.

Staff

For Undergraduate and Graduate Students

Courses in the 100 series are open to qualified undergraduate students. The 100 series are primarily first year graduate courses.

*Not to be given in 1965-66.

PHYSICS 100a. Theoretical Mechanics

Mechanics of point systems. Lagrangian and Hamiltonian methods. Small vibrations. Transformation theory. Integral invariants. Kinematics and dynamics of rigid bodies. Perturbation theory. Relativistic mechanics. *Mr. Gilbert*

PHYSICS 100b. Continuum Mechanics

The mechanics of continuous media. Hydrodynamics; non-linear phenomena; shock waves. *Mr. K. Golden*

PHYSICS 101a,b. Electromagnetic Theory

Electrostatics, magnetostatics, boundary value problems. Maxwell's equations. Quasi-stationary phenomena. Radiation. *Mr. Kleitman*

PHYSICS 102a,b. Quantum Mechanics

Representations, pictures, operator methods. Schrödinger equation and applications. Spin. Addition of angular momenta; helium spectrum. Pauli principle. Atomic and molecular structure. Elementary scattering theory; atomic and nuclear scattering. *Mr. Grisaru*

PHYSICS 103a. Low Energy Nuclear Physics

Experimental methods. Phenomenology of nuclear properties. Two-nucleon problem. Models for nuclear structure. Radioactivity. *Mr. Wolf*

PHYSICS 103b. High Energy Nuclear Physics

High energy accelerators and particle detectors. Relativistic kinematics. Classification schemes of elementary particles, conservation laws. *To be announced*

PHYSICS 104a. Modern Atomic and Molecular Physics

Microwave spectroscopy, NMR, atomic beams, optical pumping, masers and lasers. *Mr. Berko*

PHYSICS 104b. Solid State Physics*PHYSICS 109a,b. Advanced Laboratory**

2 credits.

Mr. Hohenemser

PHYSICS 110a. Mathematical Physics

Linear vector spaces: matrices, operators, Hilbert spaces. Orthogonal functions. Probability theory. *Mr. Deser*

PHYSICS 110b. Mathematical Physics

Complex variables. Differential equations. Boundary value problems. Special functions. Integral equations. Numerical methods. *Mr. Chrétien*

See Graduate School catalog for courses numbered 200 and above.

Politics

Professor NORTON E. LONG, *Chairman*; Professors LAWRENCE H. FUCHS, MAX LERNER, ROY C. MACRIDIS, JOHN P. ROCHE; Associate Professors EUGENE J. MEEHAN, RUTH SCHACHTER MORGENTHAU, I. MILTON SACKS, RICHARD L. SKLAR,

*Not to be given in 1965-66.

PETER WOLL (*Student Adviser*); Assistant Professors ERICH GOLDHAGEN, WILLIAM H. GOLDSMITH, DONALD HINDLEY, SHERIDAN W. JOHNS, III, JOEL LARUS, JOSEPH S. MURPHY, ERIC A. NORDLINGER.

Requirements for Concentration

A. Required of all Candidates: Politics 1a, 1b, 97a, 97b or Honors.

B. Politics concentrators will be required to pass comprehensive examinations at the end of their senior year in three of the following areas: American Institutions, Comparative Government, Political Theory, and International Relations. Students will plan their programs carefully in close cooperation with their advisers to prepare for the comprehensives in Politics. This program is designed to give students maximum choice with respect to curriculum and to encourage independent study.

C. Additional requirements for candidates for degrees with distinction: Politics 99. Candidates who have satisfied their honors requirements (see Politics 99) will be exempt from the senior comprehensive examinations.

POLITICS 1a,b. The Western Political Tradition

An introduction to the political tradition of the West. Historical in orientation, the course focuses on such problems as justice, power, natural law with particular reference to the central issue of reconciling individual liberty with social control.

Section 1: *Messrs. Sklar, Johns, Goldhagen*

Open to freshmen.

Section 2: *Messrs. Meehan, Nordlinger*

POLITICS 11a. Introduction to European Government

A comparative study of government in the advanced western states with emphasis on Great Britain, France, Germany, and the USSR.

Open to freshmen.

Mr. Macridis

POLITICS 11b. Introduction to Government of Developing Nations

A comparative study of government in the developing countries of Africa, Asia, and Latin America.

Open to freshmen.

Messrs. Hindley and Johns

POLITICS 12a. American Government

An analysis of the American political process. The nature of the constitutional system, federalism, and problems of governmental decision-making will be examined in relation to specific areas of public policy.

Open to freshmen.

Mr. Woll

POLITICS 12b. American Government

An analysis of American political institutions: Congress, Presidency, Supreme Court, bureaucracy, political parties, and pressure groups.

Open to freshmen.

Mr. Woll

POLITICS 21a. President and Congress

Mr. Goldsmith

POLITICS 21b. American Political Parties

An examination of the history, organization, and functions of the American party system.

Mr. Goldsmith

*Not to be given in 1965-66.

POLITICS 56bR. Civil Liberties in America

For description see History 155a.

Mr. Auerbach

POLITICS 72a. Dynamics of International Power Politics

An introduction to world politics: analysis of the components of power and how power traditionally has been employed and evaluated by member-states in the international community.

Mr. Nordlinger

POLITICS 72b. Dynamics of International Relations

An examination of peaceful means historically employed by states to help resolve power conflicts. Topics discussed will include diplomacy, international law, international organization, regionalism, alliances, disarmament, and proposals for world government.

Mr. Nordlinger

Courses for Juniors and Seniors: Prerequisites as Noted**POLITICS 97a. Senior Colloquium**

Section 1: *Mr. Johns*

Section 2: *Mrs. Morgenthau*

Section 3: *Mr. Macridis*

POLITICS 97b. Senior Colloquium

Readings and discussion in selected areas of Politics designed to augment the preparation of seniors for the comprehensive examinations.

Mr. Hindley and Staff

POLITICS 98a,b,c. Independent Study

Staff

POLITICS 99. Senior Research

Staff

POLITICS/ECONOMICS 101b. Political Economy Seminar: European Union

A study of issues on which both economics and politics make related contributions. A major part of the seminar is devoted to the preparation of legislative proposals dealing with current critical issues.

Registration is limited to a small group to be selected by the instructors from the senior class of Economics and Politics concentrators.

Messrs. Macridis and Weckstein

POLITICS 121a. Problems in Community Government

An examination of the evolution and problems of state, local, and regional governmental units.

Mr. Long

POLITICS 121b. Seminar in Community Government

Prerequisite: Politics 121a.

Mr. Long

POLITICS 128a. Public Administration and Public Policy

A study of the dynamics and problems of policy formation and administration in the Federal Government.

Mr. Woll

POLITICS H131a. Israeli Government and Politics (Hiatt Institute)

The emerging political institutions of a rapidly developing society. Lectures and field work conducted in Israel under the Hiatt Institute. *4 credits.*

Mr. Dror

POLITICS 144bR. Soviet Russia

A general analysis of the government, foreign relations, and ideology of contemporary Russia. The analysis emphasizes the country's history from the origin of the Bolshevik movement to the present.

Mr. Johns

POLITICS 152a. Political Parties

The role of political parties in the governmental process. The modern party contrasted with electoral and legislative parties. Party structure—organization, membership and leadership—will be examined with particular reference to social bases.

Mr. Nordlinger

POLITICS 152b. Methodology of Political Science

The theory and method of political analysis, with special attention to the logic of explanation, empirical theories, models, and the role of values.

Mr. Meehan

POLITICS 154b. Seminar in Government Planning

The theory and practice of modern government planning. The problems of planning in a democracy.

Mr. Long

POLITICS 156a. History of American Constitutional Law and Theory**POLITICS 156b. History of American Constitutional Law and Theory****POLITICS 164a. The Government and Politics of Africa**

A study of nationalism, political thought and political institutions in Africa. Consideration is given to the evolution of African nationalism and to the political implications of continuity and change in social and economic organization.

Mr. Sklar

POLITICS 164b. Seminar in African Political Development

Prerequisite: Politics 164a.

Mrs. Morgenthau

POLITICS 165a. The Government and Politics of China**POLITICS 165b. The Government and Politics of Japan****POLITICS 166a. The Politics of Northern Latin America**

An introduction to the government and politics of northern Latin America, *i.e.*, Mexico, Central America and the Caribbean countries. Special emphasis is given to Mexico, Guatemala, Costa Rica, and Cuba.

Mr. Hindley

POLITICS 166b. The Politics of Southern Latin America

An introduction to the government and politics of South America. The course concentrates on Brazil, Argentina, and the Andean states of Bolivia and Peru.

Mr. Hindley

POLITICS 168b. International Politics of the Far East*POLITICS 169a. Government and Politics: Southeast Asia**

A survey of the struggle for independence and the post-independence political problems facing the peoples of mainland and island Southeast Asia. The course concentrates on Viet Nam, Laos, Thailand, Malaysia, and Indonesia.

Mr. Hindley

*Not to be given in 1965-66.

*POLITICS 169b. Government and Politics: South Asia

*POLITICS 170a. American Political Thought

*POLITICS 170b. American Political Thought

POLITICS 171b. International Communism

Origins and development of the world Communist movement. Its ideology: Marxism, Leninism, Stalinism. The impact of the Communist power system on contemporary world politics, with special reference to the underdeveloped areas and newly emergent states.

Mr. Goldhagen

POLITICS 172a. Contemporary Europe: Politics, Culture, Society

The struggle to give political direction to Western Europe; movements toward economic, military, and political integration; the cultural unities in European history and the new European society.

Mr. Lerner

*POLITICS 176a. International Organization

*POLITICS 176b. International Law

*POLITICS 195a. Classical Political Theory

*POLITICS 195b. Medieval Political Theory

*POLITICS 196a. Early Modern Political Theory

*POLITICS 196b. Modern Political Theory

POLITICS 197a. Contemporary Political Theory

A systematic analysis of contemporary problems in political theory.

Mr. Meehan

*POLITICS 197b. Selected Topics Seminar

Psychology

Professor RICARDO B. MORANT, *Chairman*; Professors EUGENIA HANFMANN, RICHARD M. JONES, GEORGE A. KELLY, A. H. MASLOW, HARRY RAND; Associate Professors JAMES B. KLEE, ULRIC NEISSER, MARIANNE L. SIMMEL; Assistant Professors JOHN D. W. ANDREWS, HARVEY S. LONDON, MELVYN SCHNALL, MARK SPIVAK (*Student Adviser*), JEROME WODINSKY (*Student Adviser*); DR. DONALD B. GIDDON, MR. JOHN W. SENDERS.

Requirements for Concentration

A. All concentrators will take Psychology 1a, 2b, and 50b.

B. All concentrators will take seven additional semester courses in Psychology. With the consent of the student's adviser, one or two semester courses in other departments may count toward this total.

C. Candidates for degrees with distinction must take Psychology 99 in addition to the foregoing.

*Not to be given in 1965-66.

D. Students who plan to do graduate work in Psychology are expected to take Psychology 11a and 120a.

Unless otherwise noted, courses numbered 130 or higher are seminars with limited enrollment, and require the consent of the instructor. Junior or senior standing will usually be required. In cases where more than the maximum number of students wish to enroll in a course, criteria for selection will include the number of seminars taken previously, to provide equal opportunity for all concentrators.

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Connected with the Department of Psychology is a Nursery School to provide students an opportunity for observing children. The Psychological Counseling Center, an adjunct to the Department of Psychology, offers help to the students in the solution of personal problems.

Primarily for Undergraduates

PSYCHOLOGY 1a. Introduction to Psychology: Personality

An introduction to the study of development and adjustment dealing with intelligence, emotion, motivation, and personality structure. Experimental, comparative, and clinical approaches are illustrated.

Mr. Schnall

PSYCHOLOGY 2b. Introduction to Psychology: Cognitive Processes

Problems in the study of perception, learning, language, and thought are introduced and discussed as directive and integrative processes. Experimental, comparative, and clinical approaches are illustrated.

Mr. Schnall

PSYCHOLOGY 10a. The Psychology of Human Inquiry

A psychological analysis of the processes by which man inquires into the nature and potentialities of himself and his circumstances. Creative behavior, behavior as a means of posing questions, adventure, cooperative inquiry, and patterns of invention and discovery.

No prerequisites.

Mr. Kelly

PSYCHOLOGY 11a. Introduction to Psychological Statistics

The nature of statistical description and inference will be considered, together with selected elementary techniques.

No prerequisites.

Mr. Senders

PSYCHOLOGY 12a. Experimental Social Psychology

A general survey of the field of social psychology with emphasis on evidence from experimental sources.

Prerequisite: Psychology 1a or permission of the instructor.

Mr. London

PSYCHOLOGY 15a. Child Development

Emphasis is on the first twelve years of life as conceptualized and documented in the works of Sigmund Freud, Erik Erikson, Jean Piaget, and others.

Prerequisite: Psychology 1a or 2b or permission of the instructor. Enrollment will be limited.

Mr. Andrews

PSYCHOLOGY 18b. Motivation

The theoretical, comparative, clinical, and experimental contributions to a deeper understanding of human wishes, needs, and drives.

Prerequisite: Psychology 1a or permission of the instructor.

Mr. Jones

PSYCHOLOGY 30b. Educational Psychology

A consideration of education as a social transaction in which one person stimulates, facilitates, or channels the process of learning in another. This type of event will be dealt with in the light of knowledge about interpersonal relationships, on the one hand, and intra-individual learning, on the other.

Prerequisite: Psychology 1a or 2b.

Mr. Andrews

PSYCHOLOGY 50b. Introduction to Psychological Theory

The theoretical contributions of psychoanalysis, behaviorism, Gestalt psychology, and other schools will be examined in an historical framework.

Prerequisite: Two semester courses in psychology. This course will ordinarily be taken in the sophomore or junior year.

Mr. Wodinsky

PSYCHOLOGY 96a. Field Work in Child Psychology

In addition to class meetings, each student will spend one morning a week (3 hours) observing and participating in the nursery school.

Prerequisite: Psychology 1a, 15a, and permission of instructor. Enrollment limited to 10.

Miss Simmel

PSYCHOLOGY 96aR. Field Work in Child Psychology

Repeat of Psychology 96a.

Miss Simmel

PSYCHOLOGY 97c. Tutorial in Psychology*PSYCHOLOGY 98a,b, and c. Readings in Psychological Literature**

Readings and reports under the direction of a faculty supervisor. Open to a small number of juniors and seniors with permission of Mr. Klee.

Staff

PSYCHOLOGY 99. Senior Research

Senior candidates for a degree with distinction in psychology may enroll in Psychology 99 with permission of Mr. Klee.

Staff

For Undergraduate and Graduate Students***PSYCHOLOGY 115a. Experiential Approaches to Personality****PSYCHOLOGY 118a. Physiological Psychology**

Those aspects of physiology most relevant to psychological investigation: the anatomy and physiology of receptor and effector organs, the neuron and synapse, sensory and motor neural pathways, the integrative activity of the central nervous system, the autonomic system and the action of hormonal factors.

Prerequisite: Psychology 2b or permission of instructor.

Mr. Giddon

PSYCHOLOGY 119b. Comparative Psychology

Comparison of the behavior of various species, including man, in an evolutionary perspective.

Prerequisite: Psychology 2b or permission of the instructor.

Mr. Wodinsky

*Not to be given in 1965-66.

PSYCHOLOGY 120a. Experimental Psychology

Individual or group research carried out under supervision. Techniques of experimentation, experimental design. *4 credits.*

Prerequisite: Psychology 2b or permission of the instructor. *Mr. Morant*

PSYCHOLOGY 121. History of the Concept of Human Nature**PSYCHOLOGY 130a. Psychology of Problem Solving and Learning****PSYCHOLOGY 131b. Psychology of Symbolic Processes**

Culture as studied primarily from the frame of reference of psychology. Dreams, myths, and art as created, expressed, and as used in language, the humanities, and sciences will be studied as psychological data. The place of psychology in relation to the humanities and the other sciences will be evaluated.

Enrollment limited to 15. *Mr. Klee*

PSYCHOLOGY 132b. Psychology of Emotions

A consideration of the value dimension of the individual's dynamic relation to the world about him in both its positive and disruptive aspects. *Mr. Klee*

PSYCHOLOGY 133a. Choice, Will and the Ego

Choice, freedom and responsibility as psychological problems. The relevance to choice and action of hedonics, knowledge, reason, and religion, and of man's relation to his perception of good and evil, sickness and health.

Open only to juniors and seniors. *Mr. Klee*

PSYCHOLOGY 134a. Abnormal Psychology

A socio-psychological and dynamic approach to behavior pathology with emphasis upon current theories of pathogenic family structure.

Enrollment limited to 20. *Mr. Spivak*

PSYCHOLOGY 135a. Psychoanalytic Theory in Application*PSYCHOLOGY 137b. Personality**

The study of personality through the combined use of personality scales and experiments. Topics emphasized will be Machiavellism, authoritarianism, and sociopathy. *Mr. London*

PSYCHOLOGY 138b. Theories of Personality

A survey of current personality theories and their implications for research, for human development and for social institutions. The preliminary formulation of the student's own personality theory, both on implicit and explicit levels.

Enrollment limited to 15. *Mr. Kelly*

PSYCHOLOGY 139b. The Self and Identity*PSYCHOLOGY 140a. Learning and Behavior**

Current theories of learning will be explored in the light of experimental evidence derived from human and animal studies.

Enrollment limited to 15. *Mr. Wodinsky*

*Not to be given in 1965-66.

PSYCHOLOGY 141a. Biological Bases of Motivation

Topics to be treated include hunger, thirst, migration, sexual behavior. Evidence from biology, neurophysiology, and endocrinology will be evaluated.

Enrollment limited to 15.

Mr. Wodinsky

PSYCHOLOGY 142b. Psychosomatics

The interrelationships of psychological, social, and cultural factors in physical disease. Topics include psychophysiological mechanisms in disease, physiological correlates of mental disease, and "somato-psychic problems."

Mr. Giddon

PSYCHOLOGY 143a. Cognitive Processes*PSYCHOLOGY 144b. The Psychology of Language**

Language development; names, concepts, and symbols; expressive language; metaphor; grammar and syntax; problems of translation; pathology of language.

Enrollment limited to 15.

Miss Simmel

PSYCHOLOGY 145a. Psychopathology in Childhood

Theoretical and therapeutic implications of disorders in childhood, focusing on mental retardation and childhood psychosis.

Enrollment limited to 15.

Mr. Schnell

PSYCHOLOGY 146a. Psychopathology and Cognition

Alterations of perceptual and conceptual processes in schizophrenia, in brain injury, under the influence of drugs, and under conditions of so-called sensory isolation.

Enrollment limited to 15.

Miss Simmel

PSYCHOLOGY 147b. Systematic Psychology**PSYCHOLOGY 148aR. Advanced Child Psychology*****PSYCHOLOGY 149b. Phenomenological Psychology*****PSYCHOLOGY 150b. The Psychology of Religious Experience*****PSYCHOLOGY 151a. Political Behavior**

*Not to be given in 1965-66.



PSYCHOLOGY 152b. Group Dynamics

A consideration of classical and current experimental approaches to the study of human interaction.

Enrollment limited to 15.

Mr. London

PSYCHOLOGY 153b. Developmental Approaches to Cognition

Examination of major developmental principles and descriptive systems and their utility to the examination of perception, language, and thought. Emphasis on the work of Werner and Piaget.

Enrollment limited to 15.

Mr. Schnall

PSYCHOLOGY 154a. The Psychology of Personal Constructs

The structure, development and potentialities of personal construct theory. The theory's philosophical substructure. Utilization of the theory in personal and social affairs.

Enrollment limited to 15.

Mr. Kelly

PSYCHOLOGY 155b. Advanced Educational Psychology**PSYCHOLOGY 159b. Perception*****PSYCHOLOGY 161. Field Work in Abnormal Psychology**

See Graduate School catalog for courses numbered 200 and above.

Russian Language and Literature

Requirements for Concentration

A. Required of all Candidates: Russian 3a, 117b, 161b.

B. For those majoring in literature: five additional semester courses in Russian literature above Russian 10.

C. For those majoring in linguistics:

1. Anthropology 102 (Introduction to Linguistics) or equivalent.
2. Two semester courses in Russian literature above Russian 10.
3. Russian 97c (Tutorial in Slavic Linguistics).
4. Russian 112b.

D. Two year courses from related areas, subject to approval of Coordinator or the Chairman.

E. Additional Requirement for candidates for degrees with distinction: Russian 99.

Russian 1 and 2 are full year courses and may not be dropped with credit at midyear.

RUSSIAN 1. Introductory Russian

Staff

RUSSIAN 1aA. Intensive Introductory Russian*RUSSIAN 2. Intermediate Russian**

Prerequisite: Russian 1, appropriate placement score, or permission of the instructor.

Staff

*Not to be given in 1965-66.

RUSSIAN 3aR. Intermediate Conversation and Composition*Prerequisite:* Permission of the instructor.*Mr. Gribble***RUSSIAN 5a. Accelerated Second Year Russian**

An intensive one-semester course for students whose placement score or performance in Russian 1 indicates an advanced preparation.

Prerequisite: Permission of the Coordinator or the Chairman.*Staff***RUSSIAN 10. Readings in Russian Literature**

Prerequisite: Russian 2 or 5a, appropriate placement score, or permission of the instructor.

*Staff***RUSSIAN 97c. Tutorial***Prerequisite:* Permission of the instructor.*Staff***RUSSIAN 98a and b. Independent Study**

Reading and reports under faculty supervision. May be taken only with the permission of the adviser to concentrators and the Chairman of the Department.

*Staff***RUSSIAN 99. Senior Research**

Students who are candidates for a degree with honors in Russian must register for this course and prepare, under faculty direction, an honors thesis.

*Staff****RUSSIAN 112a. Theory of Language****RUSSIAN 112b. Theory of Language**

Major developments in linguistic theory and the application of linguistic concepts to language learning and to literature.

Prerequisite: Russian 112a or Comparative Literature 191a or permission of the instructor.

*Mrs. Simha***RUSSIAN 117b. Pre-Nineteenth Century Russian Literature***Prerequisite:* Russian 10 or permission of the instructor.*Messrs. Szulkin and Gribble***RUSSIAN 120b. The Long Poems by Pushkin***Prerequisite:* Russian 10 or permission of the instructor.*Mr. Szulkin***RUSSIAN 138a. Nineteenth Century Prose, excluding Tolstoi and Dostoevski***Prerequisite:* Russian 10 or permission of the instructor.*Mr. Szulkin****RUSSIAN 139a. Nineteenth Century Poetry, excluding Pushkin*****RUSSIAN 141b. The Russian Short Story*****RUSSIAN 145b. Dostoevski*****RUSSIAN 146bR. Tolstoi and Stendhal****RUSSIAN 147a. Slavic Drama**

History and development of Slavic drama in the nineteenth and twentieth centuries. Special emphasis on the development of Russian and Polish drama. Polish and other non-Russian plays will be read in translation.

Prerequisite: Russian 10 or permission of instructor.*Mr. Szulkin*

*Not to be given in 1965-66.



*RUSSIAN 149a. Soviet Literature

*RUSSIAN 161b. The Structure and History of Modern Literary Russian

RUSSIAN 162. Russian Fiction of the Nineteenth Century

See Comparative Literature 162.

Mr. Rahu

Sociology

Professor JOHN R. SEELEY, *Chairman*; Professors LEWIS A. COSER, EVERETT C. HUGHES, MORRIS S. SCHWARTZ, KURT H. WOLFF; Associate Professors PHILIP E. SLATER, MAURICE R. STEIN, ROBERT S. WEISS; Assistant Professors GORDON A. FELLMAN, BERNARD Z. SOBEL (*Undergraduate Student Adviser*), SAMUEL E. WALLACE, IRVING K. ZOLA, (*Graduate Student Adviser*); DR. ALVIN D. ZALINGER, DR. JOSEPH ZELAN.

Requirements for Concentration

A. Required of all Candidates: Sociology 1a (or 1aR), 2a (or 2aR), 13a, 97c.

B. Elective Courses: Concentrators must elect the equivalent of five semester courses from those listed in the departmental offerings (excluding the required courses), and the equivalent of any year course in the School of Social Science (excluding introductory courses).

C. Additional Requirement for candidates for degrees with distinction: Sociology 99.

*Not to be given in 1965-66.

SOCIOLOGY 1a. Introduction to Sociology

Main areas of present-day sociological investigation. Major groups and institutions of modern society. Guiding concepts such as social norms, status and role, interaction, social structure and function.

Open to freshmen.

Messrs. Coser, Sobel, Wallace and Zalinger

SOCIOLOGY 1aR. Introduction to Sociology

Same as Sociology 1a but given in the Spring term.

Open to freshmen.

Messrs. Fellman and Zalinger

SOCIOLOGY 2a. History of Sociological Theory

Sociological theories in historical perspective. Theoretical insight and empirical investigation. Readings of sociological classics and recent monographs.

Mr. Coser

SOCIOLOGY 2aR. History of Sociological Theory

Same as Sociology 2a but given in the Spring term.

Mr. Wolff

SOCIOLOGY 13a. Methods of Social Research

A laboratory course in research methods in sociology and social psychology. Students will complete a research project, working either individually or as members of small teams.

Mr. Zelan

SOCIOLOGY 13aR. Methods of Social Research

Mr. Zelan

SOCIOLOGY 14a. Social Psychology

The consequences of social life for the individual. Structure and functions of human groups, socialization and motivation, perception, the formation of attitudes.

Open to freshmen.

Mr. Fellman

SOCIOLOGY 14aR. Social Psychology

Same as Sociology 4a but given in the Spring term.

To be announced

SOCIOLOGY 97c. Tutorial in Sociology

Required readings, research, reports and discussions on assigned topics.

For seniors only.

Mr. Wolff

SOCIOLOGY 98a,b. Junior Readings in Sociology

Readings and reports under the direction of a faculty supervisor. In exceptional cases, this course may be used as preparation for the honors program in the senior year.

Staff

SOCIOLOGY 99. Senior Research

Seniors who are candidates for degrees with honors in sociology are required to register for this course and, under the direction of a member of the faculty, prepare an honors thesis on a suitable topic.

Staff

For Undergraduate and Graduate Students

SOCIOLOGY 100a. Sociology of the Community

The contrast between the pre-industrial and the modern industrial community. The institutional structure of community life, its internal structure and external sources of control and domination. Emphasis on the psychological and social foundations of modern community life. Illustrations from European and American communities. *Mr. Zalinger*

*SOCIOLOGY 101a. Sociology of Conflict and War

*SOCIOLOGY 102a. Social Psychiatry

SOCIOLOGY 103a. Sociology of Religion

Sociological analysis of contemporary and historical religious institutions and experiences. Religious leadership and followership; conversion; sect, denomination, and church; religion, society, and politics; leading contemporary schools of theology. *Mr. Sobel*

*SOCIOLOGY 104b. Sociology of Education

SOCIOLOGY 105b. Sociology of Modern Anti-Semitism

Sociological analysis of contemporary forms of anti-Semitism. Various theories (both past and present) attempting to explain the phenomenon will be critically examined.

Admission by consent of the instructor.

Mr. Sobel

SOCIOLOGY 106b. Sociology of Literature

The relations between society and literary forms in selected historical periods. Emphasis on the relations between problems and methods in inquiry as presented by sociological and humanistic students of man.

Admission by permission of the instructor only.

Mr. Stein

SOCIOLOGY 107a. Advanced Social Psychology

Human behavior from a combined psychodynamic and sociological point of view; with special emphasis on socialization and the relations between the individual and the collectivity.

Admission by consent of the instructor only.

Mr. Schwartz

*SOCIOLOGY 109a. Social Causation

SOCIOLOGY 110a. Sociology of Knowledge

History and historical interpretation of the sociology of knowledge, with particular emphasis on German and recent American literature. *Mr. Wolff*

*SOCIOLOGY 111a. Political Sociology Seminar

SOCIOLOGY 112b. Social Stratification

Bases of stratification and types of class systems. Variables which place an individual within a class, mobility between classes, influences of class subcultures on the personality; the dynamics of change in social class systems. *Mr. Fellman*

*Not to be given in 1965-66.

***SOCIOLOGY 114a. Modern Bureaucracy**

***SOCIOLOGY 115b. Sociology of the American Churches**

SOCIOLOGY 116b. Racial and Cultural Contacts

Comparative study of multi-racial (cultural, ethnic, religious) societies in various parts of the world, but with emphasis on the U.S.A. Their structures; problems and conflicts of personal identity; relations among people of various categories; ideologies; conflict, movements, and change. *Mr. Hughes*

SOCIOLOGY 117a. Sociology of Work and Occupations

A comparison of work and occupational systems in various cultures. Social organization of occupations and the place of work in the life of the individual.

Mr. Hughes

***SOCIOLOGY 118a. Social Institutions**

***SOCIOLOGY 122a. Sociology of Power**

Sociological analysis of power relations and systems, exploring the literature on the theory and practice of power, with special attention to statements by the major social theorists.

***SOCIOLOGY 122b. Comparative Political Sociology**

Analysis of several typical political systems, examining their relations to social structures, using cross-cultural and historical materials, investigating the foundations of political community and the organization of controls.

***SOCIOLOGY 123a. Ideology and Social Movements**

SOCIOLOGY 125a. Quantitative Methods in Research

The uses of statistics in the organization, interpretation, and presentation of research data, with emphasis on the ideas underlying the development and use of statistical techniques.

Prerequisite: Sociology 3a or the equivalent or the permission of the instructor. *Mr. Weiss*

***SOCIOLOGY 126a. Sociology of Deviance**

***SOCIOLOGY 126b. The Institutions of Social Control**

SOCIOLOGY 130b. The Family

The family in relation to its societal context and the personality development of the child. Cross-cultural materials will be emphasized. *Mr. Slater*

SOCIOLOGY H131a. Israel Social Institutions (Hiatt Program in Israel)

Demography, immigration, the native born and the Arabs, pre-state institutional structure; absorption of immigrants, the second generation; changes in institutional structure and social policy; special problems including ethnic settlement, status and stratification, cultural policy. *4 credits.* *Mrs. Bar-Yoseph*

*Not to be given in 1965-66.

SOCIOLOGY 132a. American Social Patterns

Role playing and relationships in contemporary social experience.

Prerequisite: Sociology 14a, 14aR or senior standing.

Mr. Weiss

SOCIOLOGY 135a. Group Process, I

(formerly 25)

Interpretation of interpersonal behavior and group development, based in part on observation of the discussion group itself. Readings will include material from psychology and social anthropology as well as sociology.

Admission by permission of the instructor.

Mr. Slater

SOCIOLOGY 135b. Group Process, II

Open to students who have taken Sociology 25, Sociology 135a, or by special permission of the instructor.

Mr. Slater

SOCIOLOGY 190b. Social Organization of Medical Settings

An analysis of the structural arrangements of medical practice and of medical settings. Problems of communication and role relationships among professionals and between patients and medical personnel will be examined. The impact of structures and role relationships on quality and quantity of medical care and on use of resources will be analyzed.

Mr. Zola and Staff

SOCIOLOGY 191a. Health, Community, and Society

The interrelationships of the nature of society and societies on the existence and treatment of health and illness. Conceptions of health and illness, patient careers, treatment institutions and practices, and the place of social science in medicine.

Mr. Zola and Staff

***SOCIOLOGY 192. Sociology of the Medical Professions**

This course will provide an analysis of the key occupational groups in medicine, as well as of quasi and marginal practitioners. The selection, recruitment and training of those groups will be examined and the strategic points in their careers will be considered.

SOCIOLOGY 193b. Demographic, Ecological, and Economic Factors in Medical Care

The problems of population and demographic changes on health, and the impact of urbanization and of changes in community life on medical care will be considered. Community health programs and the current emphases of public health practice will be described. The structure and provision of health services in other cultures will be considered and compared with those in the U.S.

Mr. Miller and Staff

***SOCIOLOGY 194. Methods of Social and Economic Research in Medical Care**

The utility and application of sociological, economic and epidemiological methods will be discussed. Problems of measurement, design and analysis will be examined as well as the practical problems in implementing studies in the field of medical care.

See Graduate School catalog for courses numbered 200 and above.

*Not to be given in 1965-66.

Spanish Language and Literature

Requirements for Concentration

A. Required of all Concentrators: Spanish 3aR or 3b, 97c, 106b, 120, 140aR, 150a, and one year course chosen from Spanish course offerings above Spanish 10.

B. One year course chosen from the following: Comparative Literature 116bR, 145a, 145b, 181bR; Spanish 112b.

C. Two year courses from the School of Humanities except logic or composition.

D. Comprehensive Examination to be taken at the end of the senior year. (Students wishing to prepare for this examination should consult the adviser to concentrators.)

E. Additional Requirement for candidates for degrees with distinction: Spanish 99.

Spanish 1 and 2 are full year courses and may not be dropped with credit at midyear.

Spanish 10 may be divided with the permission of the Coordinator or the Chairman.

SPANISH 1. Introductory Spanish

Staff

SPANISH 2. Intermediate Spanish

Prerequisite: Spanish 1, appropriate placement score, or permission of the instructor.

Staff

SPANISH 3aR. Intermediate Conversation and Composition

Prerequisite: Spanish 2 or permission of the instructor.

Staff

*SPANISH 3b. Advanced Conversation and Composition

SPANISH 5a and 5aR. Accelerated Second Year Spanish

An intensive one-semester course for students whose placement score or performance in Spanish 1 indicates an advanced preparation.

Prerequisite: Permission of the Coordinator or the Chairman.

Staff

SPANISH 10. Readings in Spanish Literature

Prerequisite: Spanish 2 or 5a, appropriate placement score, or permission of the instructor.

Staff

*SPANISH 97c. Tutorial

SPANISH 98a and b. Independent Study

Reading and reports under faculty supervision. May be taken only with the permission of the adviser to concentrators and the Chairman of the Department.

Staff

SPANISH 99. Senior Research

Students who are candidates for a degree with honors in Spanish must register for this course and prepare, under faculty direction, an honors thesis.

Staff

*SPANISH 106b. Studies in Advanced Spanish Conversation and Composition

*Not to be given in 1965-66.

SPANISH 112a. Theory of Language*SPANISH 112b. Theory of Language**

Major developments in linguistic theory and the application of linguistic concepts to language learning and to literature.

Prerequisite: Spanish 112a or Comparative Literature 191a or permission of the instructor. *Mrs. Simha*

SPANISH 120. Cervantes

Prerequisite: Spanish 10 or permission of the instructor. *Mrs. Lida*

SPANISH 125a. The Seventeenth Century**SPANISH 127a. Introduction to the Theory of Spanish Art**

See Fine Arts 127a.

SPANISH 130aR. Nineteenth Century Spanish Literature

Prerequisite: Spanish 10 or permission of the instructor. *Mrs. Lida*

SPANISH 140aR. Spanish Lyric Poetry

Prerequisite: Spanish 10 or permission of the instructor. *Mr. Yglesias*

SPANISH 150a. Spanish Drama of the Siglo de Oro

Prerequisite: Spanish 10 or permission of the instructor. *Mrs. Lida*

SPANISH 160aR. Latin American Literature: Major Trends**SPANISH 160bR. Latin American Literature: The Revolution****SPANISH 162a. Studies in Argentine and Brazilian Literature**

Prerequisite: Spanish 10 or permission of the instructor. *Mr. Duffy*

SPANISH 170b. The Generation of 1898*SPANISH 180bR. Twentieth Century Spanish Literature**

Prerequisite: Spanish 10 or permission of the instructor. *Miss Collard*

Theatre Arts

Professor EDWIN BURR PETTET, *Chairman and Student Adviser*; Professors HORACE ARMISTEAD, HOWARD BAY, MORRIS CARNOVSKY, LOUIS KRONENBERGER; Associate Professors JAMES H. CLAY, JOHN F. MATTHEWS, CHARLES MOORE; Assistant Professor MARTIN HALPERN; Mr. DOUGLAS R. MADDOX, Mr. PETER M. SANDER, Mr. WILLIAM A. WILSON.

Requirements for Concentration

The concentrator in Theatre Arts may select:

1. *Production and Performance*, for those interested in acting, designing, and directing.
2. *Dramatic Writing and Criticism*, for those interested in playwriting, criticism, and theatre history.

*Not to be given in 1965-66.

A. All concentrators must complete seven year courses in the department.

B. In addition to Theatre Arts 1, 2 and 112a, which are required of all majors, those whose emphasis is upon Production and Performance must elect two year courses numbered over 110.

C. With the Chairman's permission, certain courses offered in European Languages and Comparative Literature may be elected to fulfill the requirements for concentrations.

All concentrators are required to participate *twice* in major productions, once in the field of costumes, lights or settings and once in production management.

The award of departmental distinction will be conferred by the staff for outstanding scholarship or creativity.

THEATRE ARTS 1. Introduction to Drama and the Theatre

A survey of dramatic literature and theory from the Greeks to the present day.

Open to freshmen.

Mr. Pettet

THEATRE ARTS 2. Physical Production

Four classroom hours per week. *8 credits.*

Open to freshmen.

Messrs. Bay, Maddox and Armistead

THEATRE ARTS 3. Acting

Four classroom hours per week.

Open to freshmen with permission of the instructor.

Mr. Moore

THEATRE ARTS 4aR. The Actor's Art

An introduction for non-majors into the nature of the actor's and director's art. The course does not intend to train talent but rather to provide the student with the experience of the stage through the use of workshop sessions, films, recordings and the study of acting and directing methods both past and present.

Mr. Moore

THEATRE ARTS 6. Dance

Mr. Wilson

THEATRE ARTS 7. Advanced Dance and Choreography

Mr. Wilson

*THEATRE ARTS 9. Mime

**Not to be given in 1965-66.*



THEATRE ARTS 98. Selected Topics

Stage design.

*Mr. Bay***THEATRE ARTS 99. Independent Study**

Students may elect either a research or production project. Approval by the staff must be obtained at the end of the junior year. A University average of B is prerequisite.

*Staff***THEATRE ARTS 102b. Directing**

Four classroom hours per week.

Prerequisite: Theatre Arts 3.*Juniors and seniors only.**Mr. Moore***THEATRE ARTS 104. Playwriting***Juniors and seniors only.**Mr. Halpern****THEATRE ARTS 105. Advanced Playwriting****THEATRE ARTS 112a. Theatre History**

A study of the history of theatre arts (architecture, design, acting, directing) from the Greeks to the present day with emphasis on the relation of physical properties to dramatic conventions.

*Mr. Clay***THEATRE ARTS 115a. Restoration Comedy**

A study of classic English comedy, chiefly of the Restoration—Etherege, Wycherley, Dryden, Congreve, Vanbrugh. Opening with the great Restoration ancestor, Ben Jonson, the course continues into the eighteenth century of Goldsmith and Sheridan.

Two classroom hours per week. *Juniors and seniors only.* *Mr. Kronenberger***THEATRE ARTS 115b. Modern Comedy**

A study of comedy since its rebirth in the late nineteenth century. Particular emphasis on Shaw and Chekhov, and treatment of such playwrights as Wilde, Synge, O'Casey, Pirandello, George Kelly, Giraudoux, Anouilh, and T. S. Eliot.

Prerequisite for concentrators: Theatre Arts 115a.Two classroom hours per week. *Juniors and seniors only.* *Mr. Kronenberger****THEATRE ARTS 121a. Shaw and His Contemporaries****THEATRE ARTS 122a. The Modern Drama**

Authors to be read include Ibsen, Strindberg, Rostand, Becque, Hauptmann, Wedekind, Gorky, Yeats, O'Neill, Eliot, Cocteau, and Lorca.

*Mr. Halpern***THEATRE ARTS 122b. Medieval Drama**

See English 122b.

*Mr. Lawlor***THEATRE ARTS 123b. Contemporary Drama**

Continental, English, and American plays of the present, including the works of Brecht, Frisch, Beckett, Genet, Ionesco, Pinter, Gelber, and Duerrenmatt.

Mr. Halpern

*Not to be given in 1965-66.

THEATRE ARTS 124a and 124aR. Shakespeare*See English 3a and 3aR.**Messrs. Smith and Lawlor***THEATRE ARTS 125a. History of the American Drama**

A study of the American theatre from its beginnings to the First World War.

*Mr. Clay***THEATRE ARTS 125b. History of the American Drama**

A study of the American theatre from the First World War to the present.

*Mr. Clay***THEATRE ARTS 132b. Dramatic Theory and Criticism**

A study of dramatic criticism from Aristotle to the present. An investigation into the development of dramatic theory seen through the records of critical observers.

*Juniors and seniors only.**Mr. Halpern****THEATRE ARTS 133b. The Popular Arts****THEATRE ARTS 150a. Esthetics of the Theatre**

A study of the anatomy of the theatre's arts. An analysis of the philosophy underlying dramatic conventions and composition. An intense exploration through plays and critics of the art of the playwright and dramatic communication.

*Juniors and seniors only. Limited enrollment.**Mr. Pettet****THEATRE ARTS 151. Tragedy****THEATRE ARTS 152b. Comedy**

An investigation into the phenomenon of laughter in the context of the theatre's comic form: farce, comedy, parody, burlesque, and satire.

Mr. Pettet

Yiddish Language and Literature

*See NEJS 21 and 24.***Not to be given in 1965-66.**Golding Judaic Center*





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*On Leave, 1965-66.

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 Peter Grippe *Lester Aunet Professor of Sculpture*
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 Lawrence Grossman, B.A., Ph.D. *Associate Professor of Biochemistry*
 (Career Award, National Institutes of Health)
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 Alexei Haieff *Visiting Professor of Music*
 Benjamin Halpern, Ph.D. *Associate Professor of Near Eastern Studies*
 (on the Rabbi Abraham Joseph and Leah Factor Foundation)
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 Martin Halpern, M.A., Ph.D. *Visiting Assistant Professor of Theatre Arts*
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 Edwin Burr Pettet, A.B., Ph.D. *Professor of Theatre Arts and Director of the Brandeis Theatre*

*On Leave, 1965-66.

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Joshua Prawer, M.A., Ph.D.	<i>Visiting Professor of History</i>
<i>(Hebrew University)</i>	
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Peter M. Sander, A.B., M.F.A.	<i>Instructor in Theatre Arts</i>
Gerasimos X. Santas, M.A., Ph.D.	<i>Assistant Professor of Philosophy</i>
Nahum M. Sarna, M.A., Ph.D.	<i>Associate Professor of Biblical Studies</i>
Gordon Hisashi Sato, B.A., Ph.D.	<i>Associate Professor of Biochemistry</i>
<i>(on the Rosenstiel Foundation)</i>	
Henry E. Schaffer, M.S., Ph.D.	<i>Assistant Professor of Biology</i>
Jerome A. Schiff, B.A., Ph.D.	<i>Associate Professor of Biology</i>
Melvyn Schnall, M.A., Ph.D.	<i>Assistant Professor of Psychology</i>
Marcel Schneeberger, Ph.D.	<i>Assistant Professor of Physics and Research Associate</i>
Howard J. Schnitzer, B.S., Ph.D.**	<i>Associate Professor of Physics</i>
Miriam F. Schurin, M.S., Ph.D.	<i>Assistant Professor of Biology</i>
Barney K. Schwalberg, B.Sc., M.A.	<i>Assistant Professor of Economics</i>
Morris S. Schwartz, M.A., Ph.D.	<i>Mortimer Gryzmish Professor of Human Relations</i>
Silvan S. Schweber, M.S., Ph.D.	<i>Professor of Physics</i>
John R. Seeley, A.B.	<i>Philip M. Klutznick Professor of Sociology</i>
Robert T. Seeley, S.B., Ph.D.	<i>Associate Professor of Mathematics</i>
William Chapin Seitz, M.F.A., Ph.D.	<i>Professor of Fine Arts</i>
John W. Senders, A.B.	<i>Lecturer in Psychology</i>
Harold Shapero, A.B.	<i>Professor of Music</i>
Thomas O. Sherman, B.S., Ph.D.	<i>Assistant Professor of Mathematics</i>
Seymour Shifrin, A.B., M.A. (beginning 1966-67)	<i>Professor of Music</i>
Weishu Shih, D.Sc.	<i>Lecturer and Research Associate in Mathematics</i>
Evelyn Singer Simha, B.A., M.A.	<i>Assistant Professor of French</i>

*On Leave, 1965-66.

**On Leave, Spring Term, 1965-66.

Dwight Wayne Young, Th.M., Ph.D.	<i>Associate Professor of Semitic Languages</i>
Mumtaz H. Zaidi, M.Sc., Ph.D.	<i>Visiting Assistant Professor of Astrophysics</i> (University of Nebraska)
Alvin D. Zalinger, M.A., Ph.D.	<i>Visiting Lecturer in Sociology</i>
Joseph Zelan, M.A., Ph.D.	<i>Lecturer in Sociology</i>
Eléonore M. Zimmermann, M.A., Ph.D.	<i>Assistant Professor of French</i>
Leonard Zion, M.A.	<i>Lecturer in Contemporary Jewish Studies</i>
Harry Zohn, Ed.M., Ph.D.	<i>Associate Professor of German</i>
Irving K. Zola, B.A., Ph.D.	<i>Assistant Professor of Sociology</i>
Edgar Zwilling, M.A., Ph.D.**	<i>Professor of Biology</i>

Hiatt Institute in Israel

Yehuda Bauer, Ph.D.	<i>Visiting Lecturer in Jewish History</i>
Yehezkel Dror, LL.M., S.J.D.	<i>Visiting Lecturer in Israel Political Institutions</i>
Avigdor Levy, B.A., M.A.	<i>Adjunct Assistant Professor of Hebrew and</i> <i>Acting Director of Hiatt Institute for 1965</i>
Rifka Bar-Yosef, M.A., Ph.D.	<i>Visiting Lecturer in Sociology</i>
Aharon Rosen, B.A.	<i>Director of Hebrew Studies</i>
Cecil Roth, Ph.D.	<i>Visiting Professor of Jewish History</i>
Baruch Mevorach, B.A., M.A.	<i>Visiting Lecturer in Modern Jewish History</i>

Awards to Faculty on Leave 1965-1966

Alexander Altmann, <i>Philip W. Lown Professor of Jewish Philosophy</i>
American Council of Learned Societies Fellowship
Edgar H. Brown, Jr., <i>Professor of Mathematics</i>
Guggenheim Fellowship to University of Chicago and Oxford
David Buchsbaum, <i>Professor of Mathematics</i>
Guggenheim Fellowship to Florence, Italy
James E. Duffy, <i>Professor of Spanish</i>
Guggenheim Fellowship
Lawrence H. Fuchs, <i>Professor of American Civilization</i>
Senior Scholar, Institute of Advanced Projects, University of Hawaii
Joel Larus, <i>Assistant Professor of Politics</i>
Postdoctoral Fellowship, Mershon Center, Ohio State University
Avigdor Levy, <i>Lecturer in Near Eastern Studies</i>
Research Grant to Turkey
Joseph S. Murphy, <i>Assistant Professor of Politics</i>
Director, Peace Corps Training School, St. Croix, V.I.
Ulric Neisser, <i>Associate Professor of Psychology</i>
Carnegie Corporation Fellowship
John P. Roche, <i>Morris Hillquit Professor of Labor and Social Thought</i>
Rockefeller Foundation Grant
Myron Rosenblum, <i>Associate Professor of Chemistry</i>
Guggenheim Fellowship to Israel
Hugo Rossi, <i>Associate Professor of Mathematics</i>
Alfred P. Sloan Fellowship
Howard J. Schnitzer, <i>Associate Professor of Physics</i>
Alfred P. Sloan Fellowship

**On Leave, Spring Term, 1965-66.

Joel Warren Spiegelman, *Lecturer in Music*
 Inter-University Committee on Travel Grants to the U.S.S.R.
 Milton I. Vanger, *Associate Professor of History*
 American Philosophical Society Grant to South America
 Edgar Zwilling, *Professor of Biology*
 Marine Biological Laboratory, Woods Hole, Massachusetts

School Councils

Creative Arts

Associate Professor Paul H. Brainard, *Chairman*; Creighton Gilbert, Edwin B. Pettet, Harold Shapero.

Humanities

Professor J. V. Cunningham, *Chairman*; Denah L. Lida, Nahum N. Glatzer, Cyrus H. Gordon, Ramsay MacMullen, Robert O. Preyer, Frederic T. Sommers.

Science

Professor Edgar Lipworth, *Chairman*; Stephan Berko, Saul G. Cohen, Martin Gibbs, Nathan O. Kaplan, Joseph J. Kohn, Morris Soodak.

Social Science

Professor Lewis A. Coser, *Chairman*; Raymond S. Ginger, David Kaplan, Morton Keller, Norton E. Long, Robert A. Manners, Ricardo B. Morant, John R. Seeley.

GRADUATE SCHOOL OF ARTS AND SCIENCES

Harold Weisberg, *Chairman*; Stephan Berko, Saul G. Cohen, Peter Diamandopoulos, Nahum N. Glatzer, Martin Gibbs, Cyrus H. Gordon, Nathan O. Kaplan, Morton Keller, Joseph J. Kohn, Robert A. Manners, Ricardo B. Morant, Robert O. Preyer, Charles I. Schottland, John R. Seeley, Harold Shapero, Frederic T. Sommers.

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Educational Policy

Peter Diamandopoulos, *Chairman*; Paul H. Brainard, Lewis A. Coser, J. V. Cunningham, Creighton Gilbert, Allen Grossman, Arnold Gurin, Denah L. Lida, Edgar Lipworth, Kermit C. Morrissey, Hugh N. Pendleton, III, Charles I. Schottland, Maurice Sussman, Richard S. Weckstein, Harold Weisberg.

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Kermit C. Morrissey, *Chairman*; Philip J. Driscoll, Charles W. Duhig, David H. Fischer, Milton Hindus, Albert Kelner, Robert L. Koff, John B. Wight, Peter Woll, Leonard Zion. *Ex-officio*: Peter Diamandopoulos, Harold Weisberg.

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Research Associates and Fellows

Kozaburo Adachi, M.D.
 William S. Allison, Ph.D.
 Rita Arditti, Ph.D.
 Hilary Ashe, Ph.D.
 John M. Ashworth, Ph.D.
 Ronald J. Baumgarten, Ph.D.
 Rene Bensasson, Ph.D.
 Sandra Blethen, Ph.D.
 J. Anthony Burke, Ph.D.
 George Cardinale, Ph.D.
 John Carrico, Ph.D.
 Gary Ceska, Ph.D.
 J. K. Chakrabarti, Ph.D.
 William Cockburn, Ph.D.
 Hayden Coon, Ph.D.
 Leonard Corman, D.M.D.
 Lucien Cuprak, D.M.D.
 Betty Davidson, Ph.D.
 Samuel Davidson, Ph.D.
 Giovanni Di Sabato, M.D.
 Frank Dolbeare, Ph.D.
 Robert O. Doyle, Ph.D.
 Charles Drake, A.B., B.D.
 Robert A. Ellison, Ph.D.
 Hans Eppenberger, Ph.D.
 Monika Eppenberger, M.D.
 Robert G. Everson, Ph.D.
 Marie Ru-Yu Fang, Ph.D.
 Ronald H. Felton, Ph.D.
 Joan Friedman, Ph.D.
 Erland C. Gjessing, Ph.D.
 Kenneth Golden, Ph.D.
 Michael Greenspan, Ph.D.
 James Griffin, Ph.D.
 J. Stuart Grossert, Ph.D.
 Jon E. Haebig, Ph.D.
 William Hammond, Ph.D.

Linda Harpring, Ph.D.
 Joseph Herskovits, M.D.
 Annemarie Herzfeld, Ph.D.
 D. G. Hey, Ph.D.
 Daniel Hodgins, Ph.D.
 Robert L. Jaffe, Ph.D.
 Volker Kasche, Ph.D.
 Keitaro Kato, Ph.D.
 Barbara J. King, Ph.D.
 Levy Kopelovich, Ph.D.

Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Chemistry
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Biochemistry
Harkness Fellow in Biology
Research Fellow in Chemistry
NATO Postdoctoral Fellow in Chemistry
Postdoctoral Fellow in Biochemistry
Research Associate in Physics
Postdoctoral Fellow in Biochemistry
Research Associate in Physics
Postdoctoral Fellow in Chemistry
Research Associate in Chemistry
Postdoctoral Fellow in Biology
Research Associate in Biology
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Biochemistry
American Cancer Society Scholar in Biochemistry
Postdoctoral Fellow in Biochemistry
Research Associate in Physics
Research Associate in Psychology
Postdoctoral Fellow in Chemistry
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Biology
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Chemistry
Postdoctoral Fellow in Biochemistry
Visiting Scientist in Biochemistry
Research Associate in Physics
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Chemistry
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Biochemistry
NATO Research Fellow in Chemistry
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Chemistry
Postdoctoral Fellow in Biochemistry

Annette Krebs, M.A.
 Nicholas J. Kuhn, Ph.D.
 Erwin Latzko, Ph.D.
 Susan Leeman, Ph.D.

Sherwin Lehrer, Ph.D.
 Harvey L. Levine, M.D.
 Gustav Lienhard, Ph.D.
 Fang-Jen Lin, M.D.
 Helmut Link, Ph.D.
 William F. Loomis, Jr., Ph.D.
 Evelyne Nahon, M.D.
 Iain MacLean, Ph.D.
 Inga Mahler, Ph.D.
 Chiang H. Mei, Ph.D.
 Leonard Meyers, Ph.D.
 Aleksandar Z. Milovanovic, Ph.D.
 Behzad Mohit, M.D.
 William Murphey, Ph.D.
 Samuel T. Nerenberg, M.D., Ph.D.
 Evelyn Nahon, M.D.
 Gerald Porter, Ph.D.

David Portsmouth, Ph.D.
 Mohindar Puar, Ph.D.
 Julio Pudles, Ph.D.
 Thomas Ragland, Ph.D.
 G. Caird Ramsay, Ph.D.
 Michael Ramsay, Ph.D.
 Vernon Reinhold, Ph.D.
 Michael Rosen, Ph.D.

Raquel Rotman-Sussman, Ph.D.
 Allyn L. H. Rule, Ph.D.
 Thomas St. Pierre, Ph.D.
 Eugene Sander, Ph.D.
 Gottfried Theodore Schoppert, Ph.D.
 Charlotte Green Schwartz, M.A.
 Edna Seaman, Ph.D.
 John W. Senders, A.B.
 Richard Silverstein, Ph.D.
 Thomas A. Spencer, Ph.D.
 Mark Spivak, Ph.D.
 Norbert I. Swislocki, Ph.D.
 Bronislava Szorenyi, Ph.D.
 Jerome Targovnik, M.D.
 Timothy F. Thomas, Ph.D.
 J. Tyson Tildon, M.D.
 Walter Toman, Ph.D.
 Kiyoshi Ueda, M.D.

Research Associate in Psychology
Postdoctoral Fellow in Biochemistry
Senior Research Associate in Biology
National Institutes of Health Research Career
Development Awardee in Biochemistry
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Chemistry
Postdoctoral Fellow in Biology
Visiting Scientist in Biochemistry
Postdoctoral Fellow in Chemistry
Research Associate in Biochemistry
Postdoctoral Fellow in Chemistry
Research Associate in Physics
Postdoctoral Fellow in Chemistry
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Biochemistry
Visiting Scientist in Biochemistry
Visiting Scientist in Biochemistry
ONR Postdoctoral Research Associate in
Mathematics
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Chemistry
Senior Research Associate in Biochemistry
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Chemistry
Postdoctoral Fellow in Chemistry
Postdoctoral Fellow in Biochemistry
ONR Postdoctoral Research Associate in
Mathematics
Research Associate in Biology
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Biochemistry
Research Associate in Chemistry
Research Associate in Sociology
Postdoctoral Fellow in Biochemistry
Senior Research Associate in Psychology
Postdoctoral Fellow in Biochemistry
Visiting Scientist in Biochemistry
Research Associate in Sociology
Postdoctoral Fellow in Biochemistry
Senior Research Associate in Biochemistry
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Chemistry
Postdoctoral Fellow in Biochemistry
Senior Research Associate in Psychology
Postdoctoral Fellow in Biochemistry

William D. Voiers, Ph.D.
 Martha Wang, Ph.D.
 Margaret Ward, Ph.D.
 Donald Wilken, Ph.D.

Research Associate in Psychology
Postdoctoral Fellow in Chemistry
Postdoctoral Fellow in Biochemistry
National Science Foundation Postdoctoral
Fellow in Mathematics
Research Associate in Sociology
Postdoctoral Fellow (Trainee) in Biology
Postdoctoral Fellow in Biochemistry
Postdoctoral Fellow in Biochemistry
Research Associate in Biology
Research Fellow in Chemistry

Frederick Wiseman, LL.B.
 Kaichiro Yanagisawa, Ph.D.
 Jacob Yashphe, Ph.D.
 Yoshihiro Yasumura, M.D.
 Michael Zeldin, Ph.D.
 Estelle Zoll, Ph.D.

Administration of the University

Abram Leon Sachar, Ph.D.

President

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 *Leonard W. Levy, Ph.D.
 Lester G. Loomis, M.B.A.
 Kermit C. Morrissey, B.A.
 Charles I. Schottland, A.B.

Dean of University Planning and Development
Associate Dean of Faculty of Arts and Sciences
Acting Associate Dean of Faculty
Dean of Admissions
Dean of Faculty of Arts and Sciences
Dean of Financial Affairs
Dean of Students
Dean of Heller Graduate School for Advanced Studies
in Social Welfare

**Harold Weisberg, Ph.D.

Dean of Graduate School of Arts and Sciences and
Associate Dean of Faculty of Arts and Sciences

Sumner J. Abrams, P.E.

Director of Plant Operations

David L. Rolbein, M.S.

Director of Business Administration

President's Office

Abram Leon Sachar, Ph.D.
 Claire L. Freeman, Ed.M.
 Janice Edgar
 Helena Fitzpatrick
 Lawrence J. Kane '57, A.B.
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 Emanuel M. Gilbert, B.S.
 C. Ruggles Smith, M.A., LL.B.
 Mrs. Milton Steinberg, A.B.
 Marylou Buckley, B.A.

President
Executive Secretary to the President
Secretary to the President
Resources Secretary to the President
Assistant to the President
Director of Alumni Relations
Special Assistant to the President
Special Assistant for Legal Counsel
University Relations for New York City
Special Assistant

University Planning and Development

Clarence Q. Berger, A.M.
 Mary A. Scipione
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 Julius M. Rogoff, M.D.

Dean
Executive Secretary to the Dean
Associate Director
Consultant for Development of Medical Education

*On Leave, 1965-66.

**On Leave, First Semester.

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To Be Announced

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Director, News Bureau

John F. Gray, B.A.

News Writer

Rosann Lord, M.A.

News Writer

Ralph Norman

Photographer

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Director

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Assistant Director

Sarah M. Smith

Registrar

SPECIAL EVENTS

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SUMMER INSTITUTE FOR ADULTS

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Director

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Associate Dean

Peter Diamandopoulos, Ph.D.

Acting Associate Dean

**Harold Weisberg, Ph.D.

Associate Dean

GRADUATE SCHOOL

**Harold Weisberg, Ph.D.

Dean

Dorothy Roach

Executive Secretary to the Dean

Philip A. St. John, Ph.D.

Assistant to the Dean

M. Catherine Butler, A.M.

Assistant to the Dean

*On Leave, 1965-66.

**On Leave, First Semester.

HIATT INSTITUTE IN ISRAEL

Avigdor Levy, M.A.

Phyllis Silverman Kramer, M.A.

Menorah Lebowitz, M.A.

*Acting Director**Assistant to the Director**Director of Student Activities*

LEMBERG NURSERY SCHOOL

Frances Perkins, M.Ed.

Nancy Despres, M.S.

*Director**Teacher*

LIBRARY

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Louis Schreiber, B.S.L.S.

Harry N. Tarlin, M.A., M.S.L.S.

Harriet Menaker, B.A.

Joseph Szeplaki, B.S.L.S.

*Jacob and Bertha Goldfarb Librarian**Director of Library Services**Associate Director**Acquisitions Assistant**Acquisitions Assistant**Serials Acquisitions Librarian**Head Cataloger**Slavics Cataloger**Cataloger**Semitics Librarian**Cataloger**Science Cataloger**Cataloger**Music Librarian**Serials Cataloger**Reference Librarian**Assistant Reference Librarian**Assistant Reference Librarian**Circulation Librarian**Reserve Assistant**Inter-Library Loan**Science Librarian**Exhibits Librarian**Audio-Visual Services*

M. Alena Walcott, M.S.

William Borodacz, M.S., Mag. Sur.

Janet L. Bowers, M.L.S.

Sheldon R. Brunswick, M.H.L., M.S.L.S.

Edith Capon, B.L.S.

Paul T. Culley, M.S.

Ingrid S. Langvik, Cert. in L.S.

Michael Ochs, A.M., M.S.L.S.

Laura W. Silley, B.L.S.

Ivon B. Mills

(To be Announced)

Eli Schleifer, M.A., M.S.L.S.

Rosalie Archer

Florence Lever, B.S.

Abner Genece

Joanne Inglis, B.S.

Emilia Lange

Howard F. Lewis

FINE ARTS SLIDE LIBRARY

Eunice L. Cohen, M.A.

Director

LOWN INSTITUTE FOR CONTEMPORARY JEWISH AFFAIRS

(To Be Announced)

Erich Goldhagen, Ph.D.

*Director**Research Director, Institute of**East European Jewish Affairs*

SCIENCES

(To Be Announced)

Jean Tooter

Humphrey McCarthy, Jr.

*Dean**Executive Secretary to the Dean**Manager of Laboratory Supplies and Services*

Office of Dean of Students

Kermit C. Morrissey, B.A.

Lillian Michaelson

Leonard Zion, M.A.

John Rich '58, A.B.

*Dean**Executive Secretary to the Dean**Associate Dean for Student Affairs**Assistant to the Dean*

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 Nettie Weiss
 Vivian L. White
 Pierre Gonon, A.M.
 Mrs. Wesley W. Marple

Assistant to the Dean
Administrative Assistant to the Dean
Administrative Assistant to the Dean
Director of Career Planning
Director, Office of Financial Aid

ATHLETICS

Irving Olin, M.Ed.
 Rose Kenney
 Emanuel A. Flumere, M.Ed.

Director of Physical Education and Athletics
Secretary
Associate Director of Physical Education
and Athletics

Anna Catherine Nichols, M.S.
 John M. Hughes, M.Ed.
 Lisel Judge
 Raymond Ginger, Ph.D.
 Judith Jacobs, B.A.
 *K C Jones, B.A.
 Theodore Reese, M.Ed.
 Martin Martinian, M.Ed.
 Lawrence M. Strum, M.S.

Director, Women's Athletics
Physical Education Instructor
Physical Education Instructor
Tennis Coach
Dance Director
Basketball Coach
Wrestling Coach
Fencing Coach
Sports Information Director
and Business Manager

PSYCHOLOGICAL COUNSELING CENTER

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 Stanley S. Kanter, M.D.
 John D. W. Andrews, M.A.
 Lawrence J. Bader, M.A.
 Philip M. Helfaer, M.A.
 Richard M. Jones, Ph.D.
 Esther Osborne, A.M.

Director
Psychiatric Consultant
Counselor
Counselor
Counselor
Counselor
Counselor

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 George W. Gardner, M.D.

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 Jennie B. Shusterman

Registrar
Administrative Assistant

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 Selma C. Finstein, M.Ed.

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Assistant to the Director

CHAPLAINS

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 Paul Lee, Ph.D.
 Albert Axelrod, M.A.

Brandeis Newman Club
Brandeis Student Christian Association
Brandeis B'nai B'rith Hillel Foundation

Admissions

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 Margaret Ganley
 Catherine Nicotera
 Frederick L. Luddy, B.A.

Dean
Executive Secretary to the Dean
Administrative Assistant
Assistant Director

*Commencing Academic Year 1966-67.

Herbert M. Yood '63, B.A.

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Mrs. Robert D. Hartshorne, A.B.

Mrs. Helen K. Kass, A.B.

Assistant Director

Admissions Counselor

Admissions Counselor

Admissions Counselor

Florence Heller Graduate School For Advanced Studies in Social Welfare

Charles I. Schottland, A.B.

Deeda Wharton

Keitha H. Anderson

Howard Freeman, M.A., Ph.D.

Kermit K. Schooler, M.A., Ph.D.

Myrna S. Weiner, B.A.

Dean

Administrative Secretary

Executive Assistant

Director, Research Center

Associate Director, Research Center

Administrative Assistant, Research Center

University Finance Office

Lester G. Loomis, M.B.A.

Phyllis Arico

Laurence J. Higgins, M.B.A., C.P.A.

Helen Richelson

Beverly L. Fanning

Henry R. Foucher, B.S., C.P.A.

Albert J. Leigh, B.A.

Dean

Executive Secretary to the Dean

Chief Accountant

Secretary

Assistant to Chief Accountant

Assistant to Chief Accountant

Coordinator of Sponsored Research and

Research Fiscal Officer

Research Administrator

Purchasing Agent

Personnel Officer

Personnel Assistant

Manager, Accounts Office

Business Administration

David L. Rolbein, M.S.

Marie K. Collins

Norman R. Grimm, A.B.

Ruth Kelley

Dorothy Merrill

Udo Depril

Margaret Thomas

Director

Executive Secretary to the Director

Manager, Dining Services

Campus Communications

Service Bureau Supervisor

Co-Manager, Book Store

Co-Manager, Book Store

Plant Operations

Sumner J. Abrams, P.E.

Dorothy L. Dennis

Joseph M. Maher, Jr.

J. Walter Mahoney

John Sampson

Nicholas Sottile

Leo Weiss

Sam Winer

Walter Carlson

John Foti, P.E.

Director

Executive Secretary to the Director

Assistant to the Director

Supervisor, Academic Buildings

Supervisor, Residence Halls

Head Groundsman

Chief Engineer, Boiler Plant

Chief of Security

Construction Coordinator

Construction Coordinator

University Resources

Clarence Q. Berger, A.M.

Mary A. Scipione

Dean

Executive Secretary to the Dean

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Dominic C. Varisco, B.S.	<i>Director, Special Programs</i>
Shirley M. Wickman	<i>Scholarship Secretary</i>
Hyam I. Korin, M.A.	<i>National Consultant</i>
Daniel I. Ross, B.A.	<i>Director, Major Gifts Program</i>

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Sydney D. Berzoff, B.S.	<i>Senior Regional Director, New York City</i>
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Herbert A. Goldschmidt, LL.B.	<i>Senior Regional Director, Midwest</i>
Peter Tagger, M.A.	<i>Senior Regional Director, West Coast</i>
Jack E. Wolfsohn, B.A.	<i>Senior Regional Director, East Central</i>

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Charlotte Warshaw	<i>Assistant Director</i>
Frances Reiss, LL.B.	<i>Field Director, New York-New Jersey Region</i>

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DEAN OF ADMISSIONS

Admission to Graduate School:

DEAN OF GRADUATE SCHOOL

Admission to The Florence Heller School for Advanced Studies in

Social Welfare:

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Summer Institute:

DIRECTOR OF SUMMER INSTITUTE

Scholarship Applications:

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Establishment of Grants and Bequests:

DEAN OF UNIVERSITY RESOURCES

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